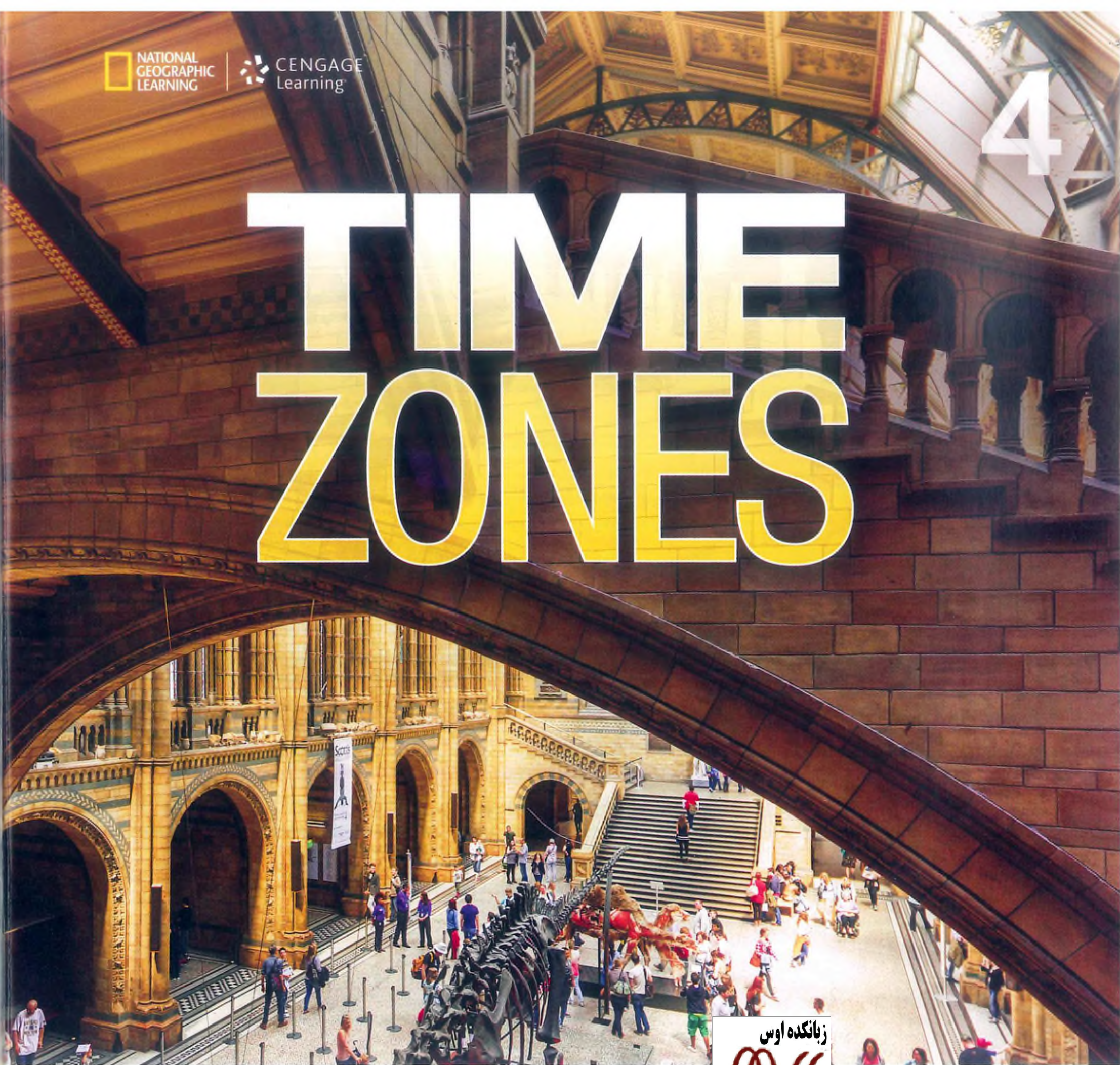


TIME ZONES

David Bohlke
Jennifer Wilkin

SECOND EDITION

TIME ZONES



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www.avasshop.ir

David Bohlke
Jennifer Wilkin

SECOND EDITION

Time Zones Student Book 4
Second Edition

David Bohlke and Jennifer Wilkin

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SCOPE AND SEQUENCE

| Unit | Functions | Grammar | Vocabulary | Pronunciation | Read, Write, & Watch |
|---|--|--|-------------------------------------|---|--|
| Page 6 1 I Love Making Jewelry! | Talking about hobbies and interests Real English: <i>Tell me about it!</i> | Gerunds: <i>She likes watching movies.</i> <i>I enjoy cooking.</i> <i>Does he like doing puzzles?</i> | Hobbies Interests | Intonation in statements, questions, exclamations | Reading: By the Numbers Writing: Description Video: Robot Games |
| Page 16 2 How Long Have You Been Playing Cricket? | Identifying different sports Describing one's sports activities Real English: <i>Give it a try.</i> | Present perfect progressive: <i>She's been working hard.</i> <i>I've been playing badminton.</i> Adverbs of time: <i>lately</i> <i>recently</i> <i>since</i> <i>for</i> | Sports | Weak form of <i>been</i> | Reading: North American Odyssey Writing: Biography Video: Life Rolls On |
| Page 26 3 You Could Ask for Advice. | Asking for and giving advice Real English: <i>You know</i> | Modals: <i>should, could, would</i> Verbs with try: <i>try telling, try asking</i> Other expressions for giving advice: <i>Why don't you ...</i> <i>If I were you ...</i> | Problems and advice | Weak forms of <i>should</i> and <i>could</i> | Reading: Vision of Hope Writing: Letter Video: Eco-Fuel Africa |
| Page 36 4 The Koala Was Taken to a Shelter. | Talking about animal rescue Real English: <i>It's up to you.</i> | Passive voice without an agent: <i>An injured animal was brought into the shelter yesterday.</i> <i>The cats were checked for any injuries.</i> <i>Is an injured animal given medicine?</i> | Wild animals Animal rescue | Intonation in a series | Reading: Bear Rescue Writing: News article Video: Animal Portraits |
| Page 46 5 How Was It Formed? | Describing the formation of natural landscapes Real English: <i>There it is.</i> | Passive voice with an agent: <i>Valleys are formed by glaciers.</i> <i>The beach is being washed away by the sea.</i> <i>The rock was broken apart by ice.</i> | Natural formations Phrasal verbs | Contrastive stress | Reading: Cave of Secrets Writing: Tourist guide Video: Mountain River Cave |
| Page 56 6 Look at That Narwhal! | Talking about the importance of conserving marine animals and their habitats Real English: <i>You're telling me ...</i> | Non-restrictive relative clauses: <i>The narwhal, which is a type of whale, has a long, straight tusk.</i> <i>My uncle, who visits every summer, is a marine biologist.</i> | Marine animals | Relative clauses | Reading: Cities in the Sea Writing: Formal letter Video: Saving Our Reefs |

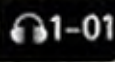
| Unit | Functions | Grammar | Vocabulary | Pronunciation | Read, Write, & Watch |
|--|--|--|-------------------------------------|--|---|
| Page 66 7 It Might Have Been a Temple. | Talking about possibilities Talking about phenomena and ancient civilizations Real English: <i>Check this out!</i> | Modals for probability: <i>could, might, must</i> | Ancient civilizations and artifacts | Reduction: <i>have</i> | Reading: Maya Mystery Writing: Short essay Video: Tutankhamun |
| Page 76 8 It's Taller than the Eiffel Tower! | Talking about man-made wonders Real English: <i>That's too bad.</i> | Comparative and superlative adjectives Other expressions: <i>It's too cloudy.</i> <i>She's old enough to drive.</i> <i>The Oasis of the Seas is just as tall as the Allure of the Seas.</i> | Man-made structures and wonders | Emphatic stress | Reading: SeaOrbiter Writing: Poster Video: Green Museum |
| Page 86 9 He's a Great Director, Isn't He? | Talking about movies, actors, and the movie industry Real English: <i>Same here.</i> | Tag questions: <i>Benedict Cumberbatch is such a great actor, isn't he?</i> <i>You haven't seen the new Star Wars movie, have you?</i> | Movie genres Evaluating movies | Intonation in tag questions | Reading: Our Attraction to Fright Writing: Movie review Video: Walk of Fame |
| Page 96 10 I Wish I Could Be an Athlete! | Talking about wishes and hopes Real English: <i>Do you mean ...?</i> | Making wishes: <i>I wish I could speak any language well.</i> Second conditional: <i>If you were rich, would you use the money to travel?</i> <i>Where would you go if you could go anywhere in the world?</i> | Wishes | Contractions: <i>'d and 'll</i> | Reading: Making a Difference Writing: Essay Video: RoboBees |
| Page 106 11 What Would You Do? | Discussing dilemmas Real English: <i>What a relief!</i> | Language review | Moral dilemmas | Final <i>t</i> or <i>d</i> with initial <i>y</i> | Reading: Thought Experiments Writing: Persuasive essay Video: Test of Character |
| Page 116 12 You Should Eat More Fruit! | Talking about health and nutrition Real English: <i>Any ideas?</i> | Language review | Health and nutrition | Pausing between thought groups | Reading: Your Amazing Brain Writing: Action plan Video: Space Food |

I LOVE MAKING JEWELRY!



Many people find making jewelry a creative and fun hobby.

Preview

- A**  **1-01 Listen to the conversations.** Match the people (Jeff, Maria, Zac, and Wendy) to their hobbies. Write **J**, **M**, **Z**, or **W**.



making jewelry _____



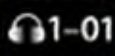
building models _____



writing a blog _____



baking _____

- B**  **1-01 Listen again.** Complete the chart.

| | WHEN | WHERE |
|-------|-----------------|-------------------------|
| Jeff | on Wednesdays | |
| Maria | on the weekends | |
| Zac | | in the school cafeteria |
| Wendy | | at her aunt's place |

- C** **Talk with a partner.** Do you have any hobbies? What do you like doing?

I like reading comic books.

How many comics do you have?

I only have about 30, but I've read over 200!

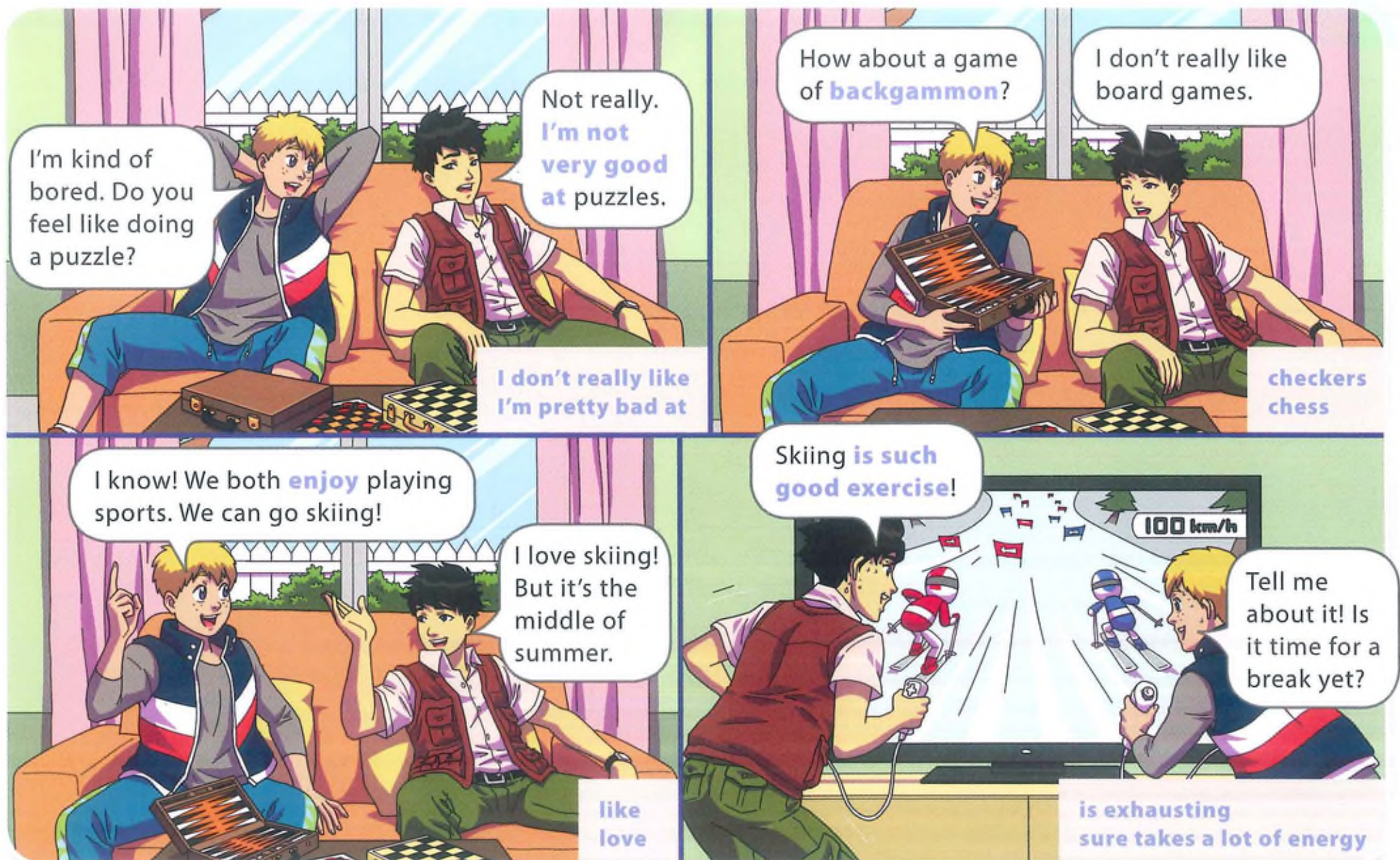
Language Focus

A 1-02 **Listen and read.** Then repeat the conversation and replace the words in **blue**.

REAL ENGLISH

Tell me about it!

B **Practice with a partner.** Replace any words to make your own conversation.



1-03

TALKING ABOUT HOBBIES AND INTERESTS

| | | |
|------------------------------------|---------------------------|---|
| She He | likes / loves | watching movies. playing the drums. |
| I They | enjoy / don't like | cooking. jogging. |
| Does he like doing puzzles? | | Yes, he does . |
| Do you like skiing ? | | No, I can't stand it. I don't mind it. |

C **1-04** **Complete the conversation.** Use the correct forms of the verbs. Then listen and check your answers.

hike perform play join stay

Kara: Hey, Paulo, have you signed up for any after-school activities yet?

Paulo: No, not yet. I love singing, so I might look into (1) _____ the musical theater club.

Kara: That would be fun! You like acting, and you're a good singer.

Paulo: Thanks. The problem is I'm not a good dancer. I'm always stepping on other people's toes. Hey! Maybe you should try out. You like (2) _____ the guitar.

Kara: Me? No thanks. (3) _____ in front of people makes me nervous.

Paulo: Well, there's the yoga club.

Kara: No way! I can't stand yoga. Plus, (4) _____ inside even longer after school doesn't sound like fun!

Paulo: So why don't you join an outdoors club? Do you like (5) _____?

Kara: That's a great idea! I love the outdoors.

D **1-05** **Listen to the conversation.** What does each person think of the activities below? Write ☺, ☹, or ☹.

| | LUCIA | WES |
|---------------------|-------|-----|
| baking | | |
| swimming | | |
| singing | | |
| playing video games | | |

E **Talk with a partner.** Look at the activities in **D**. Do you like those activities? Why or why not?

I like singing. It makes me feel relaxed.

Extreme Collectors

Hobbies can be big business.

Americans spend about \$75 billion on their hobbies each year. Some people enjoy collecting things as a hobby, and they sometimes spend a lot of time and money on it.

A 1-06 **Listen.** Circle **T** for True or **F** for False.

- | | | |
|---|---|---|
| 1. Dave shares videos of his collection online. | T | F |
| 2. Dave's wife wants him to buy fewer action figures. | T | F |
| 3. Alex collects cards of different baseball players. | T | F |
| 4. Dave and Alex are spending less time and money on their hobbies now. | T | F |

B 1-06 **Listen again.** Complete the chart.

| | SIZE OF COLLECTION | VALUE OF COLLECTION | TIME SPENT ON HOBBY |
|------|--------------------|---------------------|---------------------|
| Dave | | | |
| Alex | | | |

CRITICAL THINKING

Do you like collecting things? Do you think extreme collecting is a problem for Dave or Alex? Why or why not?

Pronunciation

Intonation in statements, questions, exclamations

A 1-07 Listen and repeat.

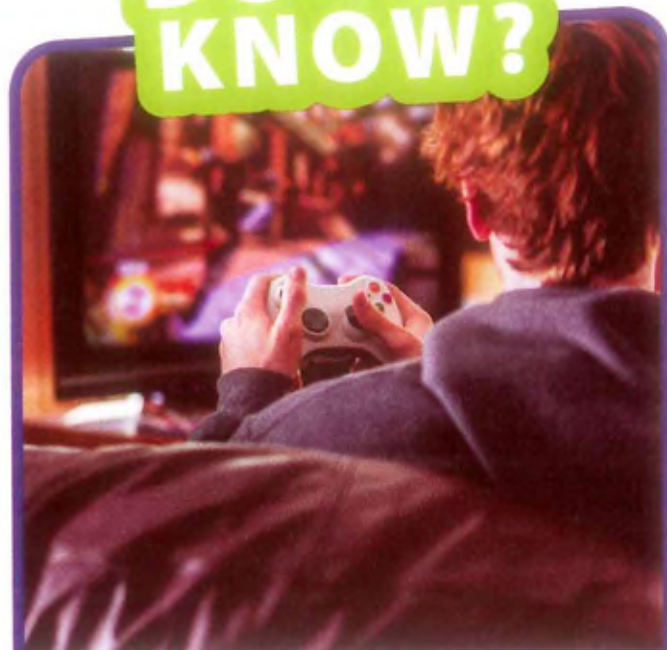
1. He hates singing.
2. He hates singing?
3. He hates singing!

B 1-08 Listen. Complete the sentences with a period (.), question mark (?), or exclamation mark (!).

1. Antonio loves playing video games ____
2. Fred hates doing word puzzles ____
3. Sarah doesn't mind doing the dishes ____
4. Peter can't stand shopping ____
5. Yun likes baking ____

C Work with a partner. Take turns to read the sentences in B.

DO YOU KNOW?



People in ____ spend the most amount of time on leisure activities.

- a. the United States
- b. Spain
- c. New Zealand

Communication

Do a survey. Complete the sentences with information that is true for you. Then interview three other students. Ask follow-up questions. Write their names and responses.

| NAMES | | | |
|--|--|--|--|
| I like playing _____. | | | |
| I enjoy hanging out at _____. | | | |
| I love watching _____. | | | |
| I don't mind helping out with _____ at home. | | | |
| I don't like playing _____. | | | |
| I love _____ on weekends. | | | |
| I enjoy listening to _____. | | | |

Do you like playing tennis?

Yes, I do.

Oh, me, too! How often do you play?

Reading

A Look at the charts. Check (✓) the information about teens that is shown.

- ☐ club involvement ☐ time spent reading ☐ changing trends in leisure time

B Skim the article. Choose the most suitable header for each section.

a. More Friends, but More Alone Time b. Effects of Technology c. Remaining Active

1 _____

2 _____

3 _____

C Talk with a partner. How much time each day do you spend using a computer or other electronic devices for leisure?

BY THE NUMBERS

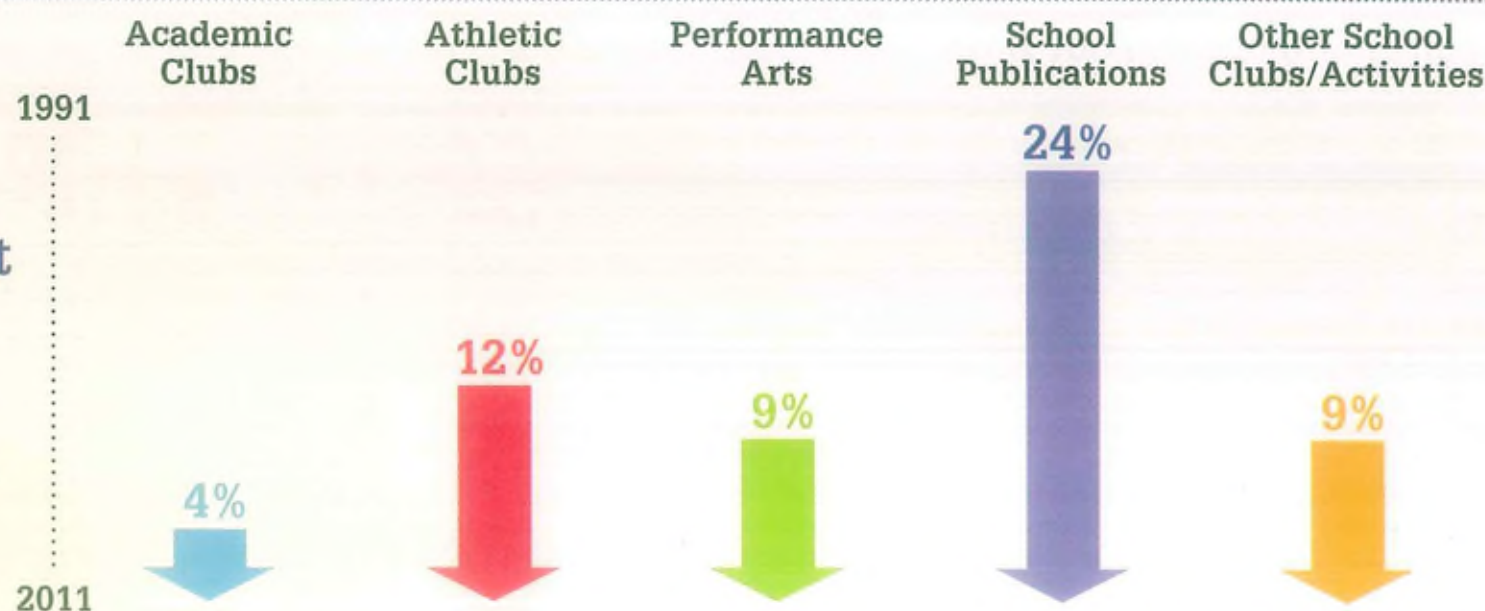
11-09

Teenagers in the United States—like teens in many countries—have more leisure time today than ever before. But over a number of decades, there have been some changes in how teenagers spend their time after school.

1 Participating in school clubs remains a common after-school activity. According to a study, the three most popular types are sports clubs, performing arts clubs, and academic clubs—the same as 20 years ago. While overall participation in these clubs has gradually dropped over the last two decades, this does not mean that students are less active.

Teens today are more likely to volunteer or work with neighborhood or community groups. High school seniors are thinking about college. They want a competitive college application that includes a variety of experiences. They know that academic grades, school activities, and community involvement are all important when applying to college.

Chart 1: School Club Involvement Among High School Seniors
(Percentage Decrease)



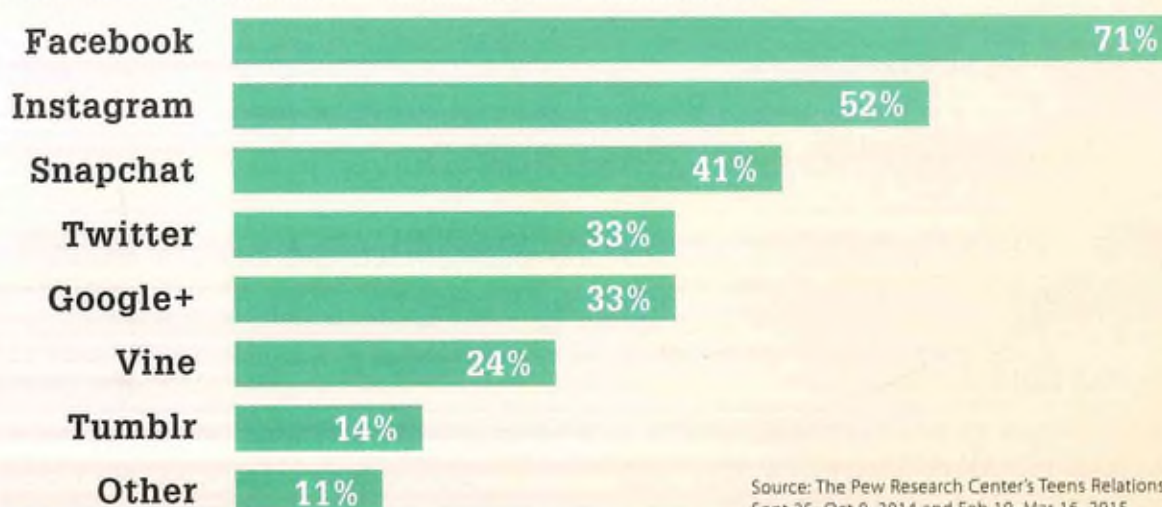
Source: Monitoring the Future Survey, 1991, 2011, 12th grade data

2 While the kinds of activities that students participate in school have not changed greatly, high school teens now spend their leisure time out of school in very different ways. For example, teens today are less likely to visit a friend in person than 20 years ago. And—perhaps unsurprisingly—they are far less likely to read a print newspaper or magazine.

One of the reasons for these changes is access to technology. Teens today have greater access to the Internet, and it has increasingly become their main channel for socializing and getting information.

Calling and texting are the most popular modes of communication among teens. Teens also connect with friends online through social media. 92% of American teens go online every day. 71% use more than one social networking site, with Facebook and Instagram being the most popular platforms. A study in 2011 showed that 29% of teens talked to friends every day through social networking sites. This trend is likely to continue; between 2006 and 2011, messaging through social media increased from 21% to 29%.

Chart 2: Most Popular Social Media Platforms



Source: The Pew Research Center's Teens Relationships Survey, Sept 25–Oct 9, 2014 and Feb 10–Mar 16, 2015

3 What leisure activities do teens **DO LESS TODAY THAN THREE DECADES AGO?**

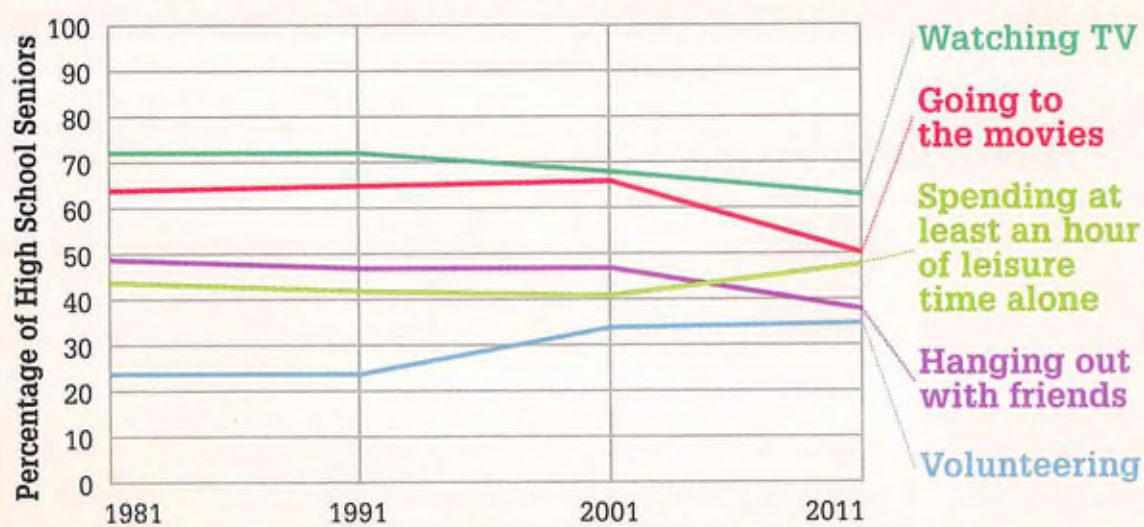
The list is long:

- watching TV
- going to movies
- meeting friends
- reading
- writing
- going to the mall
- going to friends' parties



They may have more **FRIENDS** than ever before, but they actually spend more of their time **ALONE**—these days.—

Chart 3: Changes in Leisure Time Use Among High School Seniors



Source: CIRCLE Working Paper 80 by Kei Kawashima-Ginsberg (www.civicyouth.org)

The world of the teen has moved online, and it's likely to stay there.

Comprehension

A Answer the questions about *By the Numbers*.

- Main Idea** The article is about how teens today _____.
 - spend their free time
 - learn
 - prepare for college
- Vocabulary** Having a “competitive” college application gives someone more _____ for college.
 - advantage in applying
 - time to apply
 - chances to apply
- Detail** Students today are more involved in activities _____ than in the past.
 - in school clubs
 - in the community
 - in the classroom
- Detail** According to the article, technology has changed the way teens today _____.
 - speak
 - travel
 - connect with friends
- Inference** The advantage of online communication is that it allows people to _____.
 - visit friends
 - understand each other better
 - interact with more people

IDIOM

The time when you are not working is also known as _____.

- slowtime
- backtime
- downtime

B Complete the sentences. Use information from the charts in the article.

- Participation in _____ showed the greatest decrease between 1991 and 2011.
- About _____ more teenagers use Snapchat compared to Twitter and Google+.
- In _____, the percentage of high school seniors going to the movies decreased to about 50%.
- In 2011, about _____ more teens volunteered compared to 1981.

C Talk with a partner. How do you think your leisure time compares to that of an American teen? What do you think you do more or less of these days, compared to the past?

Writing

Write a description. Talk about what you like doing in your leisure time.

After school, I'm usually very busy with my club activities. I belong to the outdoor adventure club.

At home, I don't really like watching TV, but I spend a lot of time surfing the Internet. I'm online about four hours a day. I like playing games online and chatting with my friends.

Robot Games

ABOUT THE VIDEO

Every year, thousands of students take part in the FIRST Robotics Competition.

BEFORE YOU WATCH

Guess. What do you think FIRST stands for?

- a. Fellowship of Intelligent Robot Sports Teams
- b. For Inspiration and Recognition of Science and Technology
- c. Fun International Robotics School Tournament

WHILE YOU WATCH

A Check your answer to the Before You Watch question.

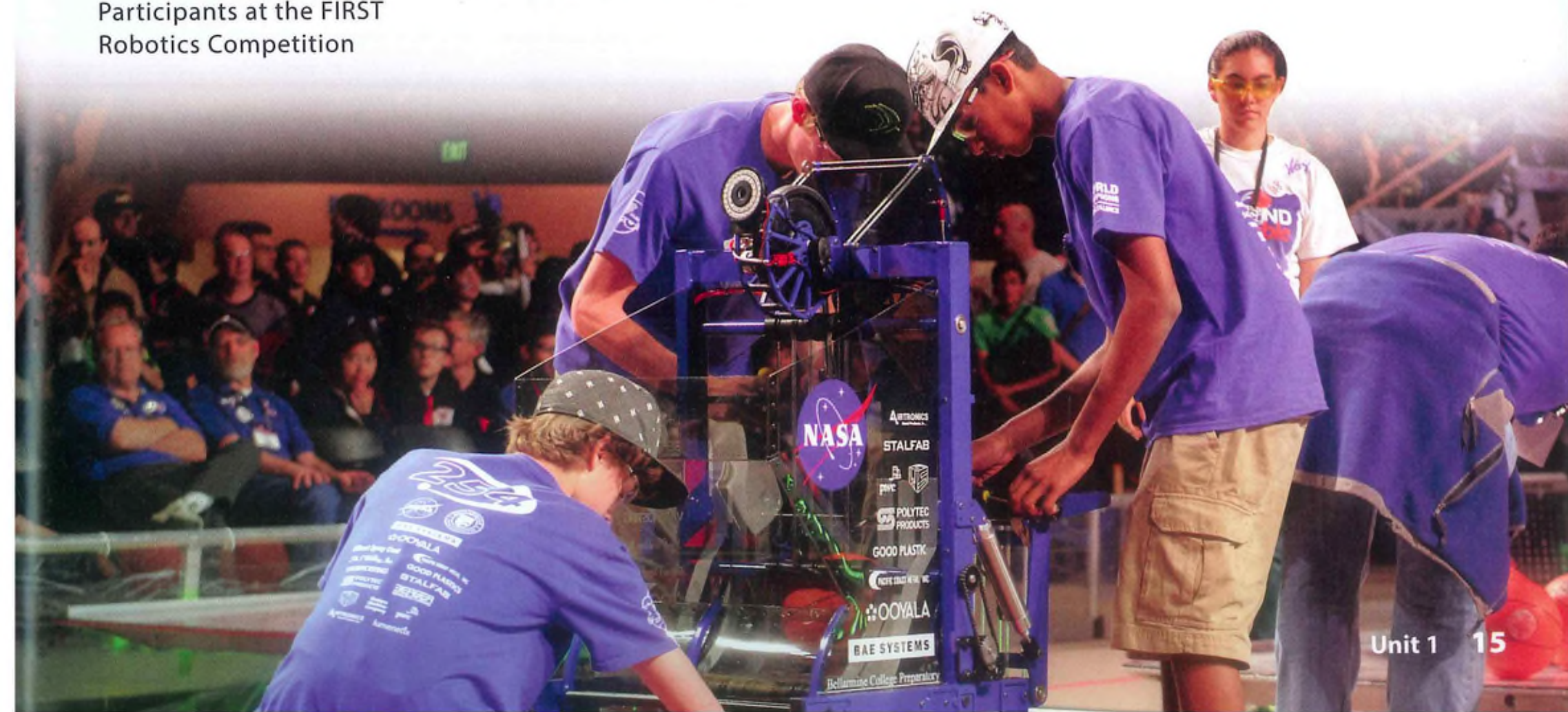
B Watch the video again. Circle the correct answers.

- 1. FIRST was started by a famous (**sportsperson** / **inventor**).
- 2. Dean Kamen had the idea for FIRST after seeing how much kids enjoyed (**sports** / **robotics**).
- 3. Students work (**alone** / **in teams**) to build the robots.
- 4. The events in the competition are (**the same** / **different**) every year.

AFTER YOU WATCH

Talk with a partner. Are you interested in science and technology? Would you like to take part in this competition?

Participants at the FIRST Robotics Competition



HOW LONG HAVE YOU BEEN **PLAYING** **CRICKET?**



Preview

A  1-10 **Listen.** Match the people to the sports they do.



taekwondo



cricket




archery



rugby

1. Lucy has been ☐ playing cricket ☐ for two years.
2. Nathan has been ☐ doing archery ☐ for a year.
3. Claudia has been ☐ playing rugby ☐ since she was five.
4. Jay has been ☐ doing taekwondo ☐ since middle school.

B  1-10 **Listen again.** Match the people's sports to how long they have been doing them.

C **Talk with a partner.** Which sports in **A** have you done before? Which have you never done?

I've never done taekwondo. Have you?

Yes, I have. I took some lessons when I was younger.

Children playing cricket in India

Language Focus

A 1-11 **Listen and read.** Then repeat the conversation and replace the words in **blue**.

REAL ENGLISH Give it a try.

B **Practice with a partner.** Replace any words to make your own conversation.

1 Thanks for showing me around the gym.

No problem. I've been coming here **for months**, so I'm familiar with all the equipment.

since October for a long time

2 This is a bench press. It's good for your **upper body**.

You've been using it for ten minutes. Can I give it a try?

arms shoulders

3 And you'll **get really fit** using this rowing machine.

Let me try!

get a great workout build strength

4 And here's my favorite—a chest press.

Um, Maya, I think you're **sitting on it backward**.

using it incorrectly facing the wrong way

1-12

DESCRIBING ACTIONS THAT CONTINUE TO THE PRESENT

Sandra looks tired. She's **been working** hard **lately**.

Nick is in great shape. He's **been going** to the gym a lot **recently**.

How long **have** you **been doing** taekwondo?

I've **been doing** taekwondo **since** last year.

How long **has** she **been playing** soccer?

She's **been playing** soccer **for** five years.

What **have** you **been doing since** lunch?

I've **been playing** badminton.

Have they **been waiting long**?

Yes, they **have**. / No, they **haven't**.

C Rewrite the sentences.

1. John began doing karate when he was five years old. He's still doing it now.
He _____ since he was five years old.
2. The snow started last night. It's still snowing now.
It _____ last night.
3. May and Leslie started playing tennis two hours ago. They're still playing.
They _____ two hours.
4. Jessica started kayaking at 3 o'clock. She hasn't stopped yet.
She _____.
5. The children began doing their homework three hours ago. They're still doing it.
They _____.

D 1-13 Circle the correct answers. Then listen and check.

1. Penny: You're really good at tennis, Max. Can you give me some lessons sometime?
Max: Sure, but 1. (**I'm only playing** / **I've only been playing**) for a year. How long
2. (**are you playing** / **have you been playing**)?
Penny: 3. (**I've been taking** / **I was taking**) lessons since last month.
Max: 4. (**I'm going** / **I've been going**) to be here tomorrow at 2 o'clock. Why don't you
stop by then?
Penny: Great, thanks!
2. Kris: What 5. (**are you doing** / **were you doing**) now?
Brian: I'm uploading some photos to my blog.
Kris: Oh, 6. (**are you blogging** / **have you been blogging**) long?
Brian: Not really. 7. (**I did** / **I've been doing**) it for only a month or so.
Kris: 8. (**I had** / **I've been having**) a sports blog in high school.
I should start it up again sometime.

E Work with a partner. Find out about the sports he or she does. Then share the information with another classmate.

Janet likes rock climbing. She's been rock climbing for five years. She goes to an indoor climbing gym every weekend.



New Sports

People have been playing sports for thousands of years. Three of the earliest sports were wrestling, athletics, and archery. Today, people continue to create new sports. These new sports have similarities with other sports, but have their own unique rules.



A footgolf player

A 1-14 **Listen.** Complete the sentences about the history of sports.

1. People in _____ played an early form of soccer.
2. Rules were created in 1863 to make soccer different from _____.
3. Unlike the modern Olympic Games, the ancient Games had participants from _____ only.
4. The ancient Games had _____ and religious importance.

B 1-15 **Listen.** Complete the chart with information about the new sports.

| | PLACE STARTED | YEAR STARTED | NUMBER OF PLAYERS | SPORT(S) IT'S SIMILAR TO |
|----------|------------------|-----------------|----------------------|-----------------------------|
| Yakball | | | | |
| Footgolf | | | | |

CRITICAL THINKING

Work with a partner. Create a new sport. Choose a sport you know and make the new sport different in some ways. Then explain the rules of your sport to another pair.

Pronunciation

Weak form of *been*

A  1-16 **Listen and repeat.**

1. She's been studying for three hours.
2. What have you been doing lately?

B  1-17 **Listen.** Complete the sentences.

1. He's _____ tennis since 5 o'clock.
2. Have you _____ hard lately?
3. We've _____ here for 30 minutes.
4. She hasn't _____ to the gym much lately.
5. People have _____ yoga for thousands of years.

C **Work with a partner.** Take turns to read the sentences in B.

DO YOU KNOW?



What sport was no longer played in the Olympic Games after 1904, but returned in 2016?

- a. golf
- b. kitesurfing
- c. soccer

Communication

Find someone similar to you. Complete the sentences with things that are true for you. Then find someone who has been doing the same activity. Ask an additional question.

| ACTIVITIES | NAME | ADDITIONAL INFORMATION |
|--|------|------------------------|
| I've been watching _____ a lot on TV. | | |
| I've been working hard in my _____ class lately. | | |
| I've been listening to a lot of _____ recently. | | |
| I've been _____ since I was little. | | |
| I've been _____ for a long time. | | |

I've been playing rugby since I was little. Do you play rugby?

Yes, I do.

Oh? How often do you play?

Dave and Amy Freeman
traveled 18,744 kilometers
across North America.



Reading

- A** Look at the title. What do you think an odyssey is?
- a. a long journey full of adventure
 - b. a trip that someone does alone
 - c. a voyage done only on water
- B** Scan the article. How long did Dave and Amy take to complete their journey?
- C** Scan the article again. Underline all the ways that Dave and Amy traveled.

ROUTE OF DAVE AND AMY'S JOURNEY





NORTH AMERICAN ODYSSEY

1-18

Dave Freeman loves sports and exploration, and he wanted to teach students about the wonders of exploration and wilderness travel. However, it's impossible to take so many students on trips. So he had an idea—he would go on adventure trips to explore different places, and share his experience with students through the Internet. The result of his idea was the Wilderness Classroom. Since then, Dave and his wife Amy have been exploring different parts of the world, and teaching students about the outdoors.

One of their most famous trips was called the North American Odyssey. They wanted to use this journey to get people to protect North America's waterways and wild places. At the same time, they wanted to teach elementary and middle school students about these wild areas—their geography, history, wildlife, and so on.

The journey across North America began on April 22, 2010—Earth Day. The Minnesotan couple began paddling their kayaks north out of Seattle. They spent the next three years kayaking, canoeing, dogsledding, and backpacking up the Inside Passage, across the Northwest Territories, through the Great Lakes, and down the east coast of the United States.

Throughout the journey, about 85,000 students tracked Dave and Amy's progress. They made the Wilderness Classroom interactive and fun for these students. Every Monday during the trip, they posted an online update. They also posted videos every week. Students could help Dave and Amy make decisions about the trip by doing surveys—they could suggest routes the couple should take. The couple were also able to interact with the kids at schools along the way. Over the three years of the project, they met around 25,000 students.

For Dave, who has been working as a guide for nearly 20 years, "teaching kids when they're young that these places exist is a first stepping stone for getting people outside, understanding why these places are important, and working to protect them."

On April 4, 2013, Dave and Amy finally paddled into Key West, Florida, completing their North American Odyssey. But they haven't been resting since then. They have been going on other adventures, continuing to teach students about exciting places outside the classroom.

Comprehension

A Answer the questions about *North American Odyssey*.

- Detail** The Wilderness Classroom allows students to _____.
 - plan a trip
 - interact with wildlife
 - learn about the outdoors
- Main Idea** The second paragraph talks about the _____ of Dave and Amy's journey.
 - difficulties
 - goals
 - outcome
- Inference** The Wilderness Classroom idea makes the experience of wilderness travel more _____ students.
 - pleasant for
 - accessible to
 - demanding for
- Detail** Students helped Dave and Amy by _____.
 - giving suggestions
 - giving money
 - posting videos
- Vocabulary** In line 31, a "stepping stone" is something that _____.
 - is basic
 - shows you the way
 - helps you make progress

B Put the events in order (1–5).

- _____ Dave and Amy decided to travel across North America.
- _____ Dave and Amy began their three-year long trip.
- _____ Dave and Amy paddled into Key West, Florida.
- _____ Dave and Amy posted updates and videos online.
- 1 The Wilderness Classroom was created.

C CRITICAL THINKING Talk with a partner. Why do Dave and Amy want students to learn about and experience the wilderness? Would you like to learn through the Wilderness Classroom?

IDIOM


If "the ball is in your court," it's time for you to ____.

- share with a partner
- let someone else finish
- make a decision

Writing

Write a biography.
Write about a famous athlete or adventurer.

[Home](#) [BLOG](#) [Photos](#) [Contact](#) [About Me](#)



Ryan Sheckler, Skateboarder

Ryan Sheckler is one of the world's youngest professional skateboarders. He has been skateboarding for most of his life. When he was six, his father encouraged him to learn skating. He has been practicing various tricks in his backyard since then. In 2008, he ...

Life Rolls On

ABOUT THE VIDEO

Life Rolls On is an organization that has been inspiring people since 2002.

BEFORE YOU WATCH

Work with a partner. What do you think Life Rolls On does? Check (✓) the sentences you think describe the organization.

1. It makes wheelchairs for people with disabilities. ☐
2. It holds sports events for people with disabilities. ☐
3. It trains people with disabilities for sports competitions. ☐
4. It teaches people about spinal cord injury. ☐

WHILE YOU WATCH

- A** Check your answers to the Before You Watch question.
- B** Watch the video again. Match the people to their quotes.

1.



a. "It's awesome that these people organize such events to push the limits, and I'm pretty stoked about it."

2.



b. "I'm going to be surfing for the first time ever, and to be honest I never even thought that could be possible."

3.



c. "I get more back than I feel I could ever give."

A participant of the "They Will Skate Again" event

AFTER YOU WATCH

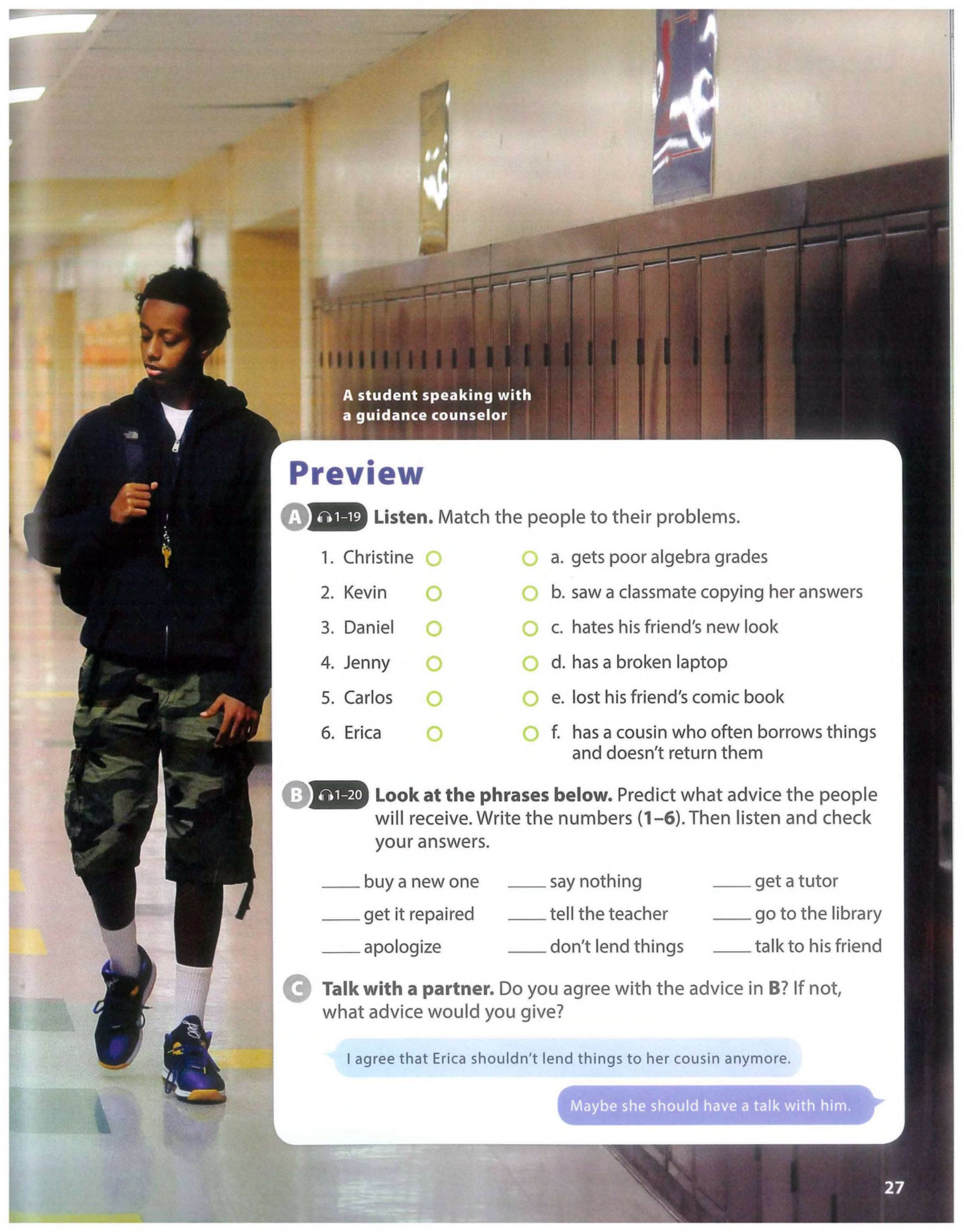
Talk with a partner. Do you know organizations similar to Life Rolls On? What do they do?



3

YOU COULD ASK **FOR ADVICE.**




A young man with dark skin and curly hair is walking in a school hallway. He is wearing a dark blue jacket over a white shirt, camouflage pants, and blue sneakers. He is looking down and talking to someone off-camera. In the background, there are rows of wooden lockers and a poster on the wall.

A student speaking with
a guidance counselor

Preview

A  1-19 **Listen.** Match the people to their problems.

- | | | |
|--------------|-----------------------|--|
| 1. Christine | <input type="radio"/> | <input type="radio"/> a. gets poor algebra grades |
| 2. Kevin | <input type="radio"/> | <input type="radio"/> b. saw a classmate copying her answers |
| 3. Daniel | <input type="radio"/> | <input type="radio"/> c. hates his friend's new look |
| 4. Jenny | <input type="radio"/> | <input type="radio"/> d. has a broken laptop |
| 5. Carlos | <input type="radio"/> | <input type="radio"/> e. lost his friend's comic book |
| 6. Erica | <input type="radio"/> | <input type="radio"/> f. has a cousin who often borrows things and doesn't return them |

B  1-20 **Look at the phrases below.** Predict what advice the people will receive. Write the numbers (1-6). Then listen and check your answers.

- | | | |
|-----------------------|-------------------------|--------------------------|
| _____ buy a new one | _____ say nothing | _____ get a tutor |
| _____ get it repaired | _____ tell the teacher | _____ go to the library |
| _____ apologize | _____ don't lend things | _____ talk to his friend |

C **Talk with a partner.** Do you agree with the advice in **B**? If not, what advice would you give?

I agree that Erica shouldn't lend things to her cousin anymore.

Maybe she should have a talk with him.

Language Focus

A 1-21 **Listen and read.** Then repeat the conversation and replace the words in **blue**.

REAL ENGLISH You know

B **Practice with a partner.** Replace any words to make your own conversation.

1 Hey, Nadine. **What's wrong?** I think I left my phone on the bus. **Is something wrong** **Is everything OK**

2 **If I were you, I'd call** the bus driver. I did that. No one's seen it. **You should call** **You should try calling**

3 Well, I'm sure **someone will find it.** And I forgot today's homework! I left it on my desk at home! **you'll get it back** **it'll show up**

4 You know, Nadine, you seem really forgetful these days. **didn't forget your book** **brought the book you lent me** But I **remembered your book!**

1-22

GIVING ADVICE

My math grades aren't very good.
What **should** I **do**?

You **should get** a private tutor.
You **could join** a study group.

My friend won't talk to me because I told her I didn't like her new look.

You **could try apologizing** to her.
Have you **tried apologizing**?

A classmate copied my answers.

Why don't you **tell** the teacher?

My friend always borrows my things without asking me first.

If I were you, I'd tell him that you're uncomfortable about it.

C Circle the correct answers.

1. My brother always plays his music loudly and I can't study. What (**could** / **should**) I do?
2. They want to make our school more beautiful. Maybe they (**could** / **would**) paint a wall mural.
3. It's hard for Talia to make friends. She doesn't know what she (**would** / **should**) do.
4. I heard you want to do volunteer work with animals. If I were you, I (**could** / **would**) contact the local animal shelter.
5. Our school doesn't recycle much. What (**could** / **would**) we do to encourage it?

D 1-23 Complete the conversation. Then listen and check your answers.

David: Are you OK, Gina?

Gina: Oh, yeah. It's my brother. He's been playing video games a lot lately. He doesn't talk to anyone and even skips meals sometimes.

David: 1. (**to stop** / **have** / **tried asking** / **him** / **you**) _____?

Gina: I have. But he didn't really listen to me.

David: 2. (**talk** / **his** / **don't** / **you** / **friends** / **to** / **why**) _____?

Gina: 3. (**say** / **I** / **what** / **should**) _____?

David: 4. (**could** / **if** / **you** / **been** / **ask** / **them** / **feeling** / **he's** / **stressed** / **recently**) _____.

Gina: OK. Maybe 5. (**him** / **could** / **they** / **as well** / **to** / **talk**) _____.

E Give advice. Write an example for each category. Then turn to page 126 and follow the instructions.

- | | |
|--|--|
| 1. a family member _____ | 4. a color _____ |
| 2. something you wear (plural) _____ | 5. a healthy food (plural) _____ |
| 3. another thing you wear (plural) _____ | 6. an unhealthy food (non-count) _____ |
| | 7. a sport _____ |

Picturing the World

Annie Griffiths is an award-winning National Geographic photographer. Throughout her career, she has traveled to over a hundred countries. She often takes photos for charity organizations around the world.



A 1-24 **Listen.** Circle **T** for True or **F** for False.

- | | | |
|---|----------|----------|
| 1. Griffiths always wanted to be a photographer. | T | F |
| 2. Griffiths started working for National Geographic while she was in college. | T | F |
| 3. Griffiths' first photo for National Geographic was of hail damage. | T | F |
| 4. Griffiths found transportation to be a challenging part of her job at National Geographic. | T | F |

B 1-24 **Listen again.** Complete the advice Griffiths gives.

1. "I think young people should _____ very different from where they live."
2. "If I were a teenager again, I'd spend more time developing _____."
3. "Someone who is looking for their dream job should spend more time with _____."

Discussion. Work in a group. Tell your group about your dream job. Then ask them for advice on how to achieve your dream.

Pronunciation

Weak form of *should* and *could*

A 1-25 Listen and repeat.

1. You could go to art school.
2. You should try talking to him.

B 1-26 Listen. Complete the sentences.

1. You _____ to your teacher about it.
2. You _____ your parents for advice.
3. I think you _____ your friend now and apologize.
4. You _____ to raise money by having a charity fair.
5. You _____ to art school if you want to be a photographer.
6. Everyone here _____ more to protect the environment.

C Work with a partner. Take turns to read the sentences in B.

DO YOU
KNOW?



Which famous person failed his university entrance exam?

- a. Albert Einstein
- b. Steve Jobs
- c. Barack Obama

Communication

Ask for and give advice. Work with a partner. Choose a problem below. Take turns asking for and giving advice.

A friend recently stopped talking to me, and I don't know why.

I saw the answers to tomorrow's science test.

My friend copies everything I do.

I want to get a part-time job, but my parents don't want me to.

I want to be a movie star when I leave school.

I don't like my new haircut.

My best friend is moving away to another city.

I would like to be more talkative and outgoing around people.

I want to get a part-time job, but my parents don't want me to. What should I do?

You could tell them about the things you can learn by doing a part-time job.





Reading

- A** **Scan the article.** When did Molly lose her sight?
- B** **Skim the article.** What made Molly join Me to We?
- C** **Talk with a partner.** How do you think Molly overcame her problem of being bullied?

**Molly Burke speaking at
We Day in Toronto, Canada**



VISION OF HOPE

1-27

Molly Burke was not born blind. She started losing her sight when she was four years old. Doctors said that she had a rare eye disease that would slowly take away her vision completely. In first grade, she learned to read Braille, although she could still see. Life was pretty
5 normal for the next few years. However, in seventh grade, things got worse. Black turned to gray. Yellow turned to white. Soon, Molly couldn't see the blackboard.

"I just started to cry," remembers Molly. Her parents told her everything would be OK. "But I knew it wouldn't." As her vision faded, Molly started
10 using a cane to help her walk. This embarrassed her friends, and people stopped inviting her to do things. Then the bullying began.

Molly once broke her ankle and had to use crutches to help her walk. A group of girls—girls who were once her friends—committed a terrible act of bullying. They were usually responsible for walking
15 Molly to the cafeteria. Instead, they took the blind 14-year-old outside and down a hill. They smashed Molly's crutches against a tree and ran away. "I was alone," remembers Molly. "I couldn't see. I couldn't walk." Luckily, Molly had her cell phone and was able to call her mother for help.

20 After she finished high school, Molly thought about what she wanted to do before going to college. Her brother was working in a children's home in Africa, and she wanted to do something that would help others, too. Then, she found out about Me to We, an organization that has been helping people through volunteering
25 and developing leadership skills. She joined the organization on a youth trip to Kenya to help build a school. While there, she spoke at a local girls' school. Molly now knew what she wanted to do next—to be one of the motivational speakers at Me to We.

Molly has been speaking to schools all over the United States and
30 Canada about bullying. Her advice? Be strong! During a speech in Toronto, she spoke to about 20,000 people. They stood up and clapped wildly after her speech. Her father said, "Molly has a real ability to inspire people and to help others who are going through something, whether it's a disability, or bullying, or a different set of challenges."

35 "Four years ago, no one even wanted to sit near me, and people thought I wasn't worth anything," said Molly. "Now there are 20,000 people on their feet supporting me. It's a really cool feeling."

Comprehension

A Answer the questions about *Vision of Hope*.

- Detail** Molly learned Braille because she _____.
 - was blind
 - was interested in it
 - would be blind someday
- Reference** In line 10, "this" refers to Molly's _____.
 - walking
 - use of a cane
 - fading vision
- Inference** People bullied Molly because they didn't like _____.
 - her personality
 - helping her
 - that she was different
- Vocabulary** In line 16, "smashed" means _____.
 - broke
 - placed
 - hid
- Inference** Molly is sharing her own experience to help other people _____.
 - be leaders
 - challenge themselves
 - overcome their problems

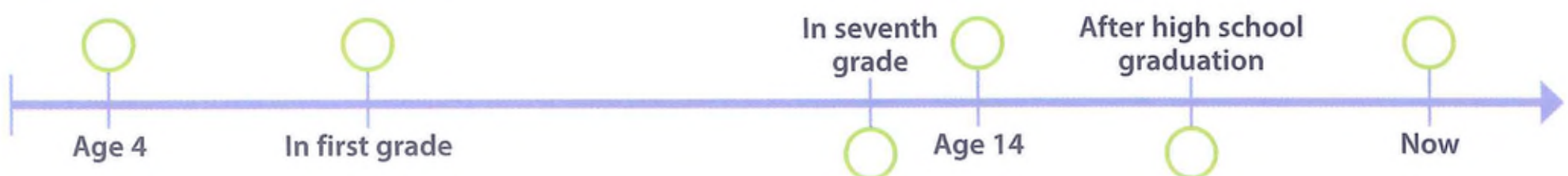
IDIOM

To "pull the wool over someone's eyes" means to _____ someone.

- bully
- blind
- trick

B Complete the timeline. Write the letters of the events below.

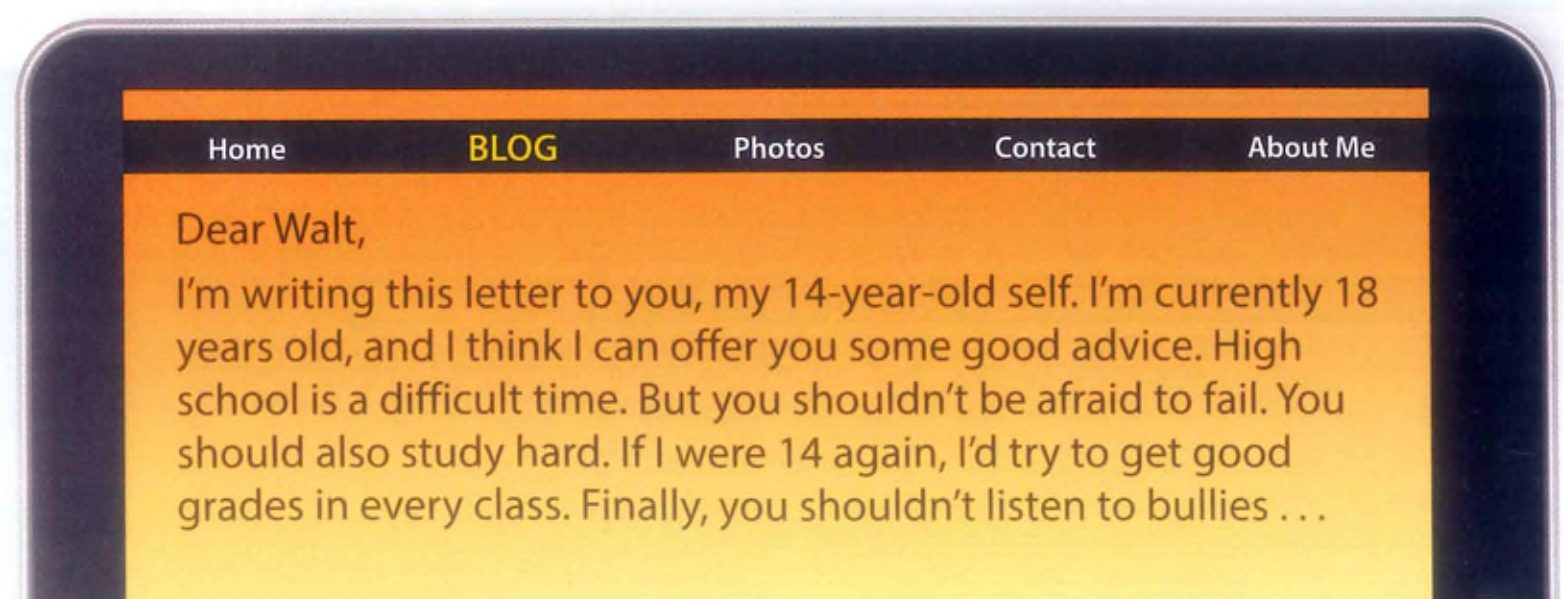
- | | |
|----------------------------------|-------------------------------|
| a. experienced bullying | d. learned to read Braille |
| b. started losing her sight | e. completely lost her vision |
| c. went on a youth trip to Kenya | f. speaks for Me to We |



C CRITICAL THINKING Talk with a partner. Do you know someone who was bullied? What do you think people should do if they are being bullied?

Writing

Write a letter to yourself from four years ago. Give yourself advice.



Eco-Fuel Africa

ABOUT THE VIDEO

National Geographic Explorer Sanga Moses wants to improve the lives of people in Uganda.

National Geographic Explorer Sanga Moses

BEFORE YOU WATCH

What do you know about Uganda? Circle the correct answers.

1. The capital city of Uganda is (**Kira** / **Kampala**).
2. Uganda's biggest export is (**coffee** / **fuel**).
3. About (**40** / **80**) percent of the population live in rural areas.
4. (**English** / **French**) is one of the national languages of Uganda.

WHILE YOU WATCH

A Circle the correct answers.

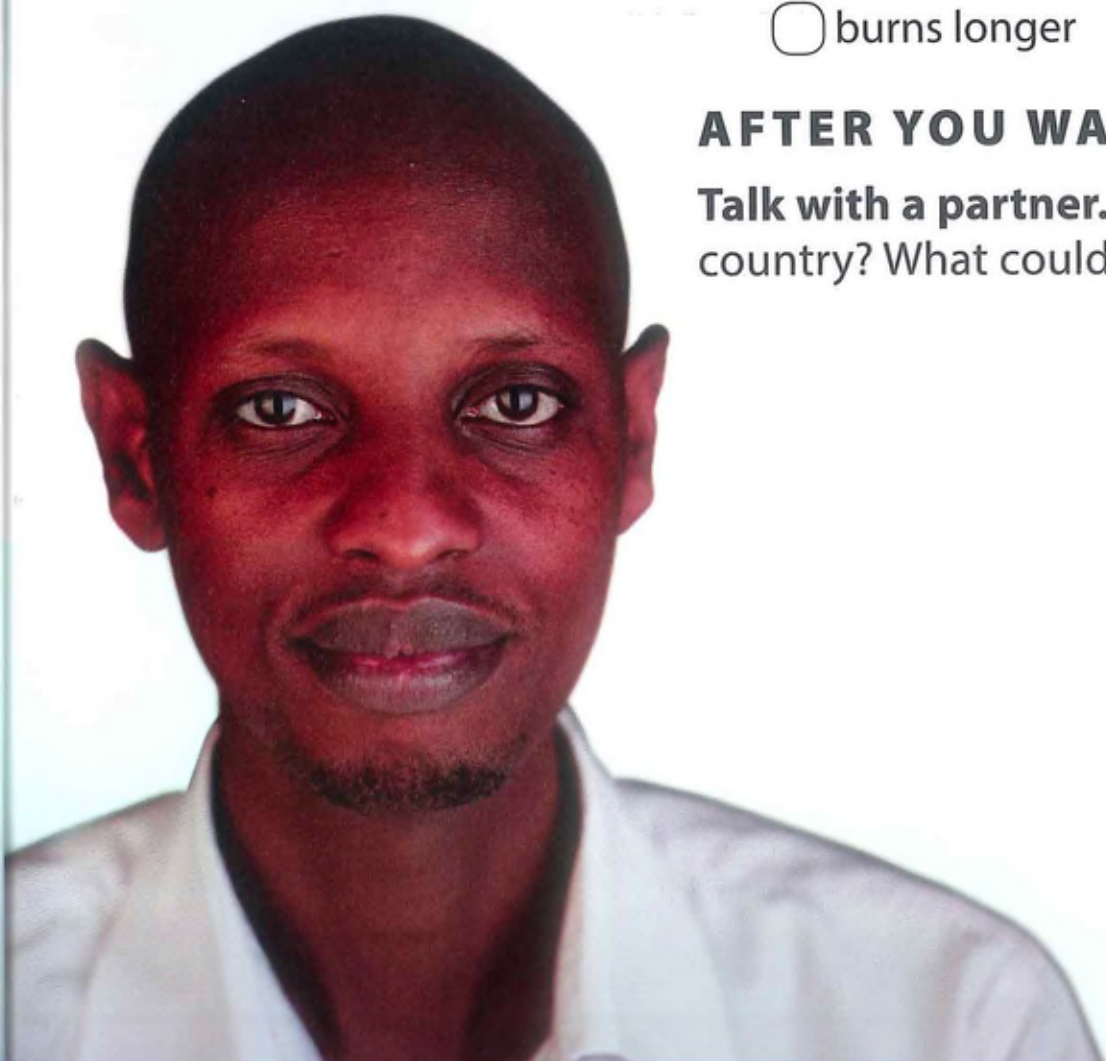
1. Many children in Uganda don't have time for school because they need to (**cook** / **gather wood**) for their families.
2. The eco-fuel is made from (**cheaper wood** / **farm waste**).
3. Eco-Fuel Africa helps farmers and women (**earn more income** / **get an education**).

B Watch the video again. What are the advantages of Moses' eco-fuel? Check (✓) the ones mentioned in the video.

- | | | |
|--|--|---|
| <input type="checkbox"/> burns cleaner | <input type="checkbox"/> saves forests | <input type="checkbox"/> creates a bigger fire |
| <input type="checkbox"/> burns longer | <input type="checkbox"/> cheaper | <input type="checkbox"/> can be reused many times |

AFTER YOU WATCH

Talk with a partner. Are there any environmental issues in your country? What could you do about them?



THE KOALA WAS TAKEN TO A SHELTER.

Preview

A  1-28 **Listen.** Check (✓) the things that are done when an animal is found.

- | | |
|---|--|
| <input type="checkbox"/> It's wrapped in a blanket. | <input type="checkbox"/> It's driven to the shelter. |
| <input type="checkbox"/> It's given food. | <input type="checkbox"/> It's washed. |
| <input type="checkbox"/> It's placed in a cage. | <input type="checkbox"/> A tag is attached to it. |

B  1-28 **Listen again.** Circle the correct answers.

1. Wrapping the koala in a blanket helps (**make it sleep** / **calm it down**).
2. It's easier to (**check for injuries on** / **feed**) the koala after washing it.
3. Tags are attached to koalas to (**monitor their health** / **identify them**).

C **Talk with a partner.** Have you ever seen, or read a story about, an injured or lost animal? Explain what happened.

I found a kitten behind my house once. It was abandoned.

How sad. What did you do?



A koala's cast being
trimmed by a vet from
the Australia Zoo
Wildlife Hospital

Language Focus

REAL ENGLISH

It's up to you.

A 1-29 Listen and read. Then repeat the conversation and replace the words in **blue**.

B Practice with a partner. Replace any words to make your own conversation.

1 I really want to adopt a dog from a rescue shelter.

That's **great**. These dogs really need homes.

2 Do you think I should get a **small dog**?

It's up to you. They're all so cute!

3 It says here that this one was brought in **last weekend**.

Do you think he was abandoned?

4 Hey! **He looks just like you!**

You have the same hairstyle. You could be twins.

1-30

TALKING ABOUT THINGS THAT WERE DONE

| | |
|---|--|
| A volunteer wraps the bird in a blanket. | The bird is wrapped in a blanket. |
| He brought an injured animal into the shelter yesterday. | An injured animal was brought into the shelter yesterday. |
| The vet checked the cats for any injuries. | The cats were checked for any injuries. |
| The rescue center has released the sloth back into the wild. | The sloth has been released back into the wild. |
| Is an injured animal given medicine? | Yes, it is . / No, it isn't . |
| Were the dogs brought in yesterday? | Yes, they were . / No, they weren't . |

C Complete the conversation. Use the correct forms of the words in parentheses.

Max: How was your weekend, Chloe?

Chloe: Very interesting. I volunteered at the animal shelter.

Max: Really? Was it a good experience?

Chloe: It was! On Saturday a baby bird (1) _____ (**bring**) in. Everyone thought it had a broken wing.

Max: (2) _____ it _____ (**abandon**)? I heard mother birds do that sometimes.

Chloe: Yeah. It (3) _____ (**give**) some medicine and then the vet checked its wing. The vet said its wing wasn't broken.

Max: Well, that's good. (4) _____ it _____ (**release**) then?

Chloe: No, it's still a little young. I think they're planning to keep it for a while. I also helped with two raccoons. They (5) _____ (**hit**) by a car.

Max: Oh no. Did they survive?

Chloe: Yeah, they (6) _____ (**treat**) for leg and chest injuries. They will have to stay there until they get better.

D 1-31 Complete the sentences. Use the correct forms of the words in parentheses. Then listen and check your answers.

If you find a small, injured animal like a bird or squirrel, it probably (1) _____ (**abandon**). Before you (2) _____ (**take**) the animal to a shelter, gently cover it with a towel or blanket. Then try to get it into a box or cage.

Line a box with paper, a towel, or a shirt to make the animal more comfortable. Move it to a dark, quiet place. Once it (3) _____ (**put**) in a dark place, it will begin to relax. Don't feed the animal.

You should (4) _____ (**call**) for help if you find a larger animal like a deer or raccoon. Never approach larger wild animals unless you (5) _____ (**tell**) to do so.

E Complete a story about a rescued animal. Work with a partner.
Student A: Turn to page 126. **Student B:** Turn to page 128.

A volunteer checking on a rescued bird



The Photo Ark

The Photo Ark project is an online archive of photos of endangered zoo animals.

Created by National Geographic photographer Joel Sartore in 2005, it has photos of several thousand animals.



A 1-32 **Listen.** Check (✓) the topics that are discussed.

- | | |
|--|---|
| <input type="checkbox"/> types of animals in the Photo Ark | <input type="checkbox"/> the goal of the Photo Ark project |
| <input type="checkbox"/> where Sartore photographs animals | <input type="checkbox"/> the challenge of photographing animals |
| <input type="checkbox"/> Sartore's favorite animal to photograph | <input type="checkbox"/> ways to support Sartore's work |

B 1-32 **Listen again.** Circle the correct answers.

1. The Photo Ark project aims to (**raise awareness of animal extinction** / **record all the plants and animals in the world**).
2. Some of the animals in the Photo Ark have (**become extinct** / **been adopted**).
3. Animals in the Photo Ark are photographed (**in their natural environment** / **against a plain background**).
4. Sartore (**believes** / **doesn't believe**) that some endangered animals are more important than others.
5. One way to support Sartore's work is to (**visit zoos** / **adopt a rescued animal**).

CRITICAL THINKING

Some people think that animals shouldn't be kept in zoos or aquariums. Instead, they should be free. What do you think? Are zoos protecting animals, or harming them?

Pronunciation

Intonation in a series

A 1-33 Listen and repeat.

1. The shelter was able to save a bird, a raccoon, and a rabbit.
2. The koala was wrapped in a blanket, given water, and washed.

B 1-34 Work with a partner. Take turns reading the sentences below. Then listen and check your intonation.

1. The baby bear was trapped, scared, and hungry.
2. The bird was picked up, wrapped in a blanket, and taken to the shelter.
3. The animal was given food, water, and medicine.
4. The shelter accepts donations of food, blankets, and money.
5. The injured fox was carefully picked up, placed in a cage, and put in a dark place.

C Complete the sentences. Then read them to a partner.

1. After I get home from class, I _____, _____, and _____.
2. The three people I'm closest to are _____, _____, and _____.
3. This weekend I plan to _____, _____, and _____.

DO YOU KNOW?



Manatees are closely related to ____.

- a. dolphins
- b. hippos
- c. elephants

Communication

Present a news story. Work in a group. Choose one of the headlines below or make up your own. Include detailed information to make the story interesting. Present your group's news story to the class.

Monkey Spotted at Playground

Thirty Cats Rescued from Burning Building

Rabbit Found Wearing Clothes

Teenagers Hurt at Zoo

Deer Discovered in High School Cafeteria

TOWN'S PET FISH RELEASED INTO RIVER

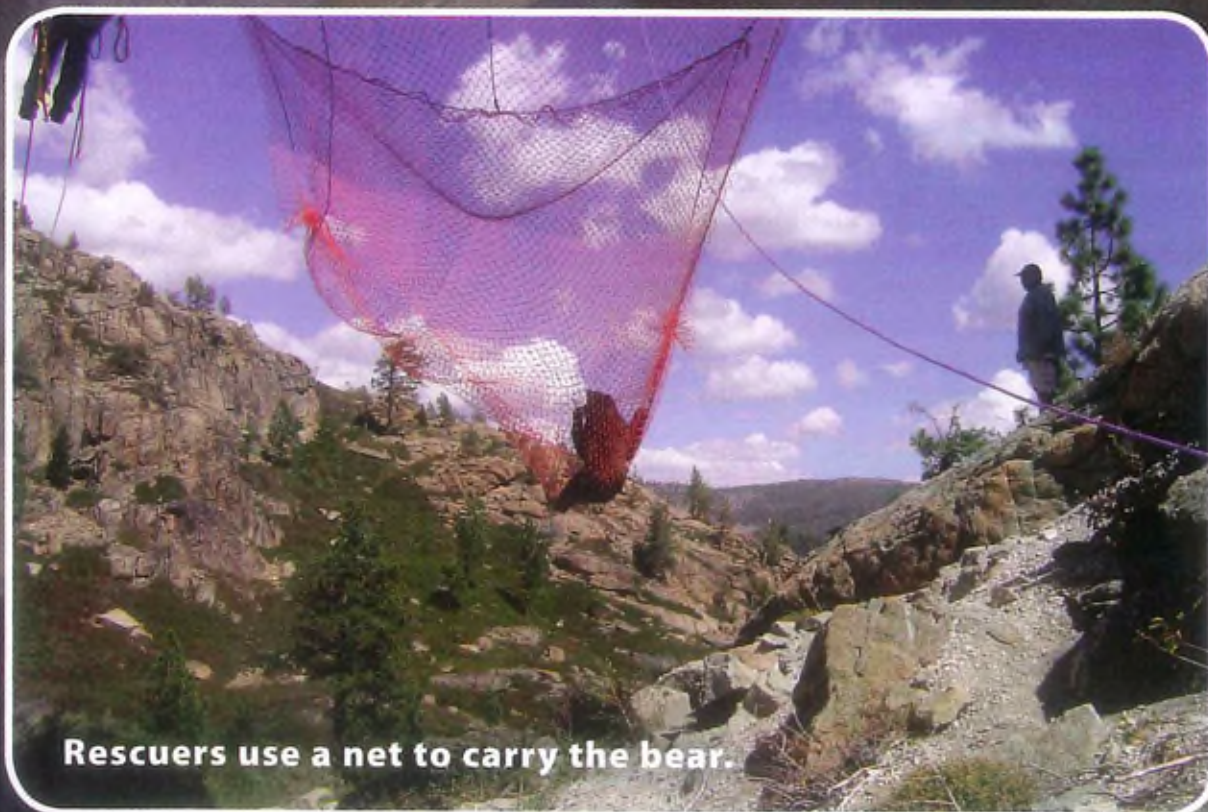
A large deer was discovered last night in a high school cafeteria.

That's right. A guard heard a noise in the cafeteria and went to see. The deer was seen eating potato chips.

Reading

- A** Look at the photos. What do you think happened?
- B** Scan the article. Where did the bear spend the night?
- C** Skim the article. Underline all the people who were involved in the rescue.

A black bear hanging onto the arch of a bridge in California



Rescuers use a net to carry the bear.



BEAR RESCUE

1-35

A black bear was in a dangerous situation when she fell off a 30-meter-high bridge. After a long day in California's Sierra Nevada mountains, the bear probably thought she was taking a shortcut home. She was walking across the bridge when, suddenly, two cars
5 entered from both sides. There was nowhere to run, so the frightened bear jumped onto the rail and began to fall over the side.

Luckily, the bear pulled herself onto an arch under the bridge, but she was trapped there. A driver saw the unbelievable scene and called 911. Robert Brooks, an animal control officer from the nearby
10 town of Truckee, was sent to investigate. "I thought it was a joke," he said. But it wasn't a joke, so he called Dave Baker of the BEAR League—a group that helps bears in trouble. "He thought I was playing a joke on him, too," Brooks said.

Unfortunately, the sky was getting dark, so the rescuers had to wait.
15 Early next morning, the two men returned to the bridge with more volunteers. Amazingly, the bear was still there. They needed to rescue her quickly. Baker had an idea—they should hang a net under the bear, push her into it, and then lower her to the ground.

Firefighters volunteered to lower the 100-kilogram bear once she
20 was in the net. Police officers closed the road, and when the net arrived it was hung under the bridge. Then, an animal control officer shot a dart containing a sleeping drug into the bear's shoulder. Ann Bryant, head of the BEAR League, stood under the bridge. When the bear was sleepy, Bryant yelled, "OK, push!" A volunteer rock climber
25 used his feet to push the bear off the arch, right into the middle of the net.

The bear was gently lowered to the ground. When she touched the ground, everyone cheered. Bryant and Officer Brooks guided the sleepy bear to a stream, where she could finally get a drink. "She just
30 kind of lay down on her tummy and put her paws under her chin," said Bryant, "like a dog lying on the living room floor . . . only big!" The rescuers then cleared all the people from the area and left the bear alone so she could sleep. Since then, no one has seen her. "I don't think she's going near that bridge anymore," Brooks said.

Comprehension

A Answer the questions about *Bear Rescue*.

1. **Purpose** The purpose of the article is to _____.
 - a. teach readers about bears
 - b. tell an interesting story
 - c. persuade readers that wild bears are dangerous
2. **Detail** The bear climbed onto the rail because she was _____.
 - a. scared
 - b. lost
 - c. hiding
3. **Inference** Baker thought Brooks was joking because _____.
 - a. it was an unbelievable story
 - b. Brooks often tells jokes
 - c. it was a very funny story
4. **Inference** The rescuers had to make the bear sleep first so that she _____.
 - a. could rest
 - b. wouldn't be hungry
 - c. wouldn't attack people
5. **Vocabulary** A "stream" is a _____. (line 29)
 - a. pool
 - b. small river
 - c. lake

IDIOM

To be "out of harm's way" means to be ____.

- a. healthy
- b. safe
- c. far away

B Circle six sentences that best summarize the article. Then put them in order (1–6). Two sentences are extra.

- a. ____ The bear was lowered safely to the ground.
- b. ____ Rescuers hung a net under the bridge.
- c. ____ The scared bear weighed 100 kilograms.
- d. ____ The bear started to fall and became stuck under the bridge.
- e. ____ The people who were watching were all cleared from the area.
- f. 1 A bear was walking across a tall bridge in the Sierra Nevada mountains.
- g. ____ The bear was shot with a sleeping dart and pushed into the net.
- h. ____ Two cars entered the bridge, and the bear jumped onto the rail.

C Talk with a partner. Are there wild bears in your country? Do you know what you should do if you encounter a wild bear?

Writing

Write a news article. Look at this photo and describe what you think happened.



Animal Portraits

ABOUT THE VIDEO

Joel Sartore has been photographing animals for the Photo Ark project since 2005.

BEFORE YOU WATCH

Talk with a partner. What do you remember about the Photo Ark?

1. What is the aim of Joel Sartore's Photo Ark project?
2. Where are the photographs of the animals taken?
3. How many species has Sartore photographed so far?

WHILE YOU WATCH

A Check your answers to the Before You Watch questions.

B Watch the video again. Circle the correct answers.

1. Sartore's projects mainly deal with _____.
 - a. conservation
 - b. illegal killing of animals
2. The animals are photographed against black or white backgrounds because it _____.
 - a. calms the animals down
 - b. allows us to focus on them
3. Sartore feels that his project _____.
 - a. is near completion
 - b. will continue for a long time

Joel Sartore with a clouded leopard

AFTER YOU WATCH

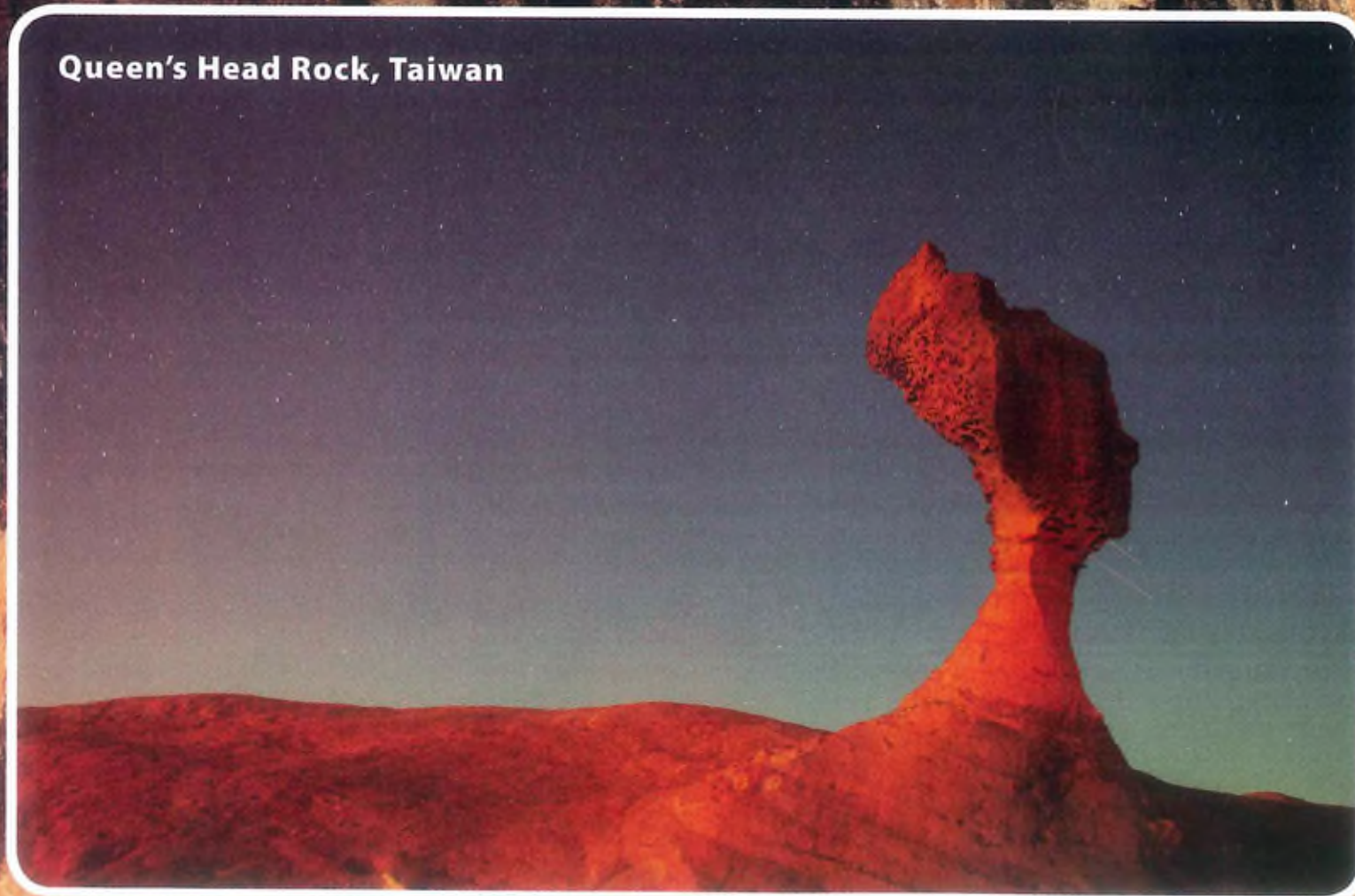
Talk with a partner. What endangered animals do you know? What other things can we do to stop them from becoming extinct?



HOW WAS IT **FORMED?**

Wave Rock, Australia

Queen's Head Rock, Taiwan



Preview

A  2-01 **Listen.** How were the rock formations below created? Check (✓) the correct answers.

| | eaten away by water | worn down by wind | formed by volcanoes | broken apart by ice |
|----------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1. Wave Rock | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Queen's Head Rock | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Rock Towers | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

B  2-01 **Listen again.** Circle **T** for True or **F** for False.

- | | | |
|---|----------|----------|
| 1. The colored stripes on Wave Rock were created by rain. | T | F |
| 2. Queen's Head Rock is in danger of falling over. | T | F |
| 3. The Turkish rock towers are now closed to visitors. | T | F |

C **Talk with a partner.** Do you know any interesting rock formations?

The rock pillars on Jeju island in South Korea have an interesting shape.

Do you know how they were formed?



Language Focus

A 2-02 **Listen and read.** Then repeat the conversation and replace the words in **blue**.

REAL ENGLISH There it is.

B **Practice with a partner.** Replace any words to make your own conversation.

1 Wow! Look at that rock, Ming!

That's the famous Elephant Trunk Hill. Can you see its **trunk**?

eyes leg

2 No. Oh, wait! There it is.

It's been **eaten away** by wind and water for millions of years.

worn down shaped

3 Look at that **amazing** rock! It looks like a camel.

It was probably worn down by the wind, too.

incredible interesting

4 Guilin is a great place to study **geology**!

Yeah. Maybe in a million years that camel will look like a tiny squirrel!

rocks nature

2-03

TALKING ABOUT HOW THINGS WERE DONE

Glaciers **form** valleys.

The sea **is washing away** the beach.

Ice **broke apart** the rock.

Water **has eaten away** the canyon.

Valleys **are formed by** glaciers.

The beach **is being washed away by** the sea.

The rock **was broken apart by** ice.


The canyon **has been eaten away by** water.

How **were** these cracks **made**?

They **were made by** an earthquake.

Was Elephant Trunk Hill **created by humans**?

No. It **was shaped by** wind and water.

C  2-04 **Complete the sentences.** Use the correct forms of the words in the box. Then listen and check your answers.

agree on ~~eat away~~ put out look after pull over tear down

1. Look at these canyon walls. They have been eaten away by wind and water for many years.
2. The red car _____ by the police because it was going too fast.
3. To protect the plants and animals in the area, a plan to create a national park _____ by the government.
4. The children _____ by their grandmother when their parents are at work.
5. After last year's hurricane, many damaged homes _____ by the government.
6. Finally, after ten hours, the fire _____ by the firefighters.

D **Complete the sentences.** Use the correct forms of the words in parentheses.

Utah's Landscape Arch (1) _____ (**consider**) by many people to be one of the most beautiful natural arches in the world. It (2) _____ (**name**) by Frank Beckwith, an expedition leader who (3) _____ (**explore**) the area in the winter of 1933–34. The arch is 88 meters long. In 1991, a large piece of rock (4) _____ (**fall**) from the thinnest part of the arch. This (5) _____ (**capture**) on video by a tourist. In 1995, another piece fell. Unfortunately, this (6) _____ (**cause**) the arch to become unstable, so the path under it (7) _____ (**close**) by the park service. The thinnest part of the arch is now less than two meters thick.

E **Work with a partner. Student A:** Turn to page 127. **Student B:** Turn to page 130.

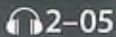
**Landscape Arch
in Utah, U.S.A.**

Supervolcano

Volcanoes are powerful.

The force of a volcanic eruption can cover a great area of land with rocks and lava. But there's something that could be more dangerous when it erupts—a supervolcano.

**Eyjafjallajökull
volcano in Iceland**

A  2-05 **Listen.** Complete the sentences.

1. A volcanic eruption happens when hot lava and gas escape to the Earth's _____.
2. Big volcanic eruptions can affect the _____.
3. The average temperature worldwide _____ after Mount Pinatubo erupted.
4. The eruption of the Icelandic volcano caused the biggest air travel disruption since _____.

B  2-06 **Listen.** Circle **T** for True or **F** for False.

- | | |
|--|-------------------|
| 1. A supervolcano can be easily seen because it's huge. | T F |
| 2. Hot, molten rock is trapped underground in a supervolcano. | T F |
| 3. Plant and animal species can become extinct if a supervolcano erupts. | T F |
| 4. Yellowstone's supervolcano erupted recently. | T F |

CRITICAL THINKING

Many people choose to live near active volcanoes although it is dangerous. Why do you think they choose to take such a risk?

Pronunciation

Contrastive stress

A 2-07 Listen and repeat.

- | | |
|--|---|
| 1. Did the rock chamber explode? | No, it collapsed . |
| 2. I think this rock was shaped by wind. | Actually, it was by water . |
| 3. Is Pluto a planet? | It was considered a planet, but not anymore. |

B 2-08 Underline the stressed words in the responses.

Then listen and check your answers.

- | | |
|---|--|
| 1. Are the rock towers in Taiwan? | No, they're in Turkey. |
| 2. I think heat broke this rock apart. | Actually, ice broke it apart. |
| 3. Are the glaciers continuing to grow? | No, they're actually melting very quickly. |

C Work with a partner. Take turns to read the sentences in B.

DO YOU
KNOW?



Pumice, a type of volcanic rock, is sometimes used

_____.

- a. as fuel in barbecues
- b. to make paper
- c. in beauty products

Communication

Find the people below. When you find the person, ask a follow-up question to get additional information.

Find someone who ...

- was named after a relative.
- has seen a volcano.
- has been chased by a dog.
- has visited a natural wonder.
- has been awarded a prize.
- has been stung by a bee.
- has been tricked by someone.

Additional Information

Were you named after a relative?

Yes, I was.

Who were you named after?

I was named after my uncle.

Reading

- A Skim the article.** What is it mainly about?
- a. the formation of a cave
 - b. the discovery of a cave
 - c. the exploration of a cave
- B Scan the article.** Who discovered the cave?
- C Talk with a partner.** What famous caves do you know? Do you know how caves are formed?

A large, dimly lit cave interior. The walls are rugged and covered in stalactites. A campsite is set up on the floor, with several yellow and black tents illuminated from within. People are visible around the campsite, some standing and some sitting. A bright light source, possibly an opening or a large fire, is visible in the distance, creating a strong beam of light that illuminates the scene.

Cave explorers in
Hang Son Doong

CAVE OF SECRETS

2-09

A team of scientists and cave experts stand at the entrance of Hang Son Doong—the world’s largest cave. Hidden deep in the dense mountain jungle of central Vietnam, the cave was created millions of years ago when rock under the mountain was eroded by river water.

- 5 The weakened rock eventually collapsed, creating a massive underworld now waiting to be explored.

- 10 Hang Son Doong, which means “mountain river cave,” was discovered by a local man called Ho Khanh in 1991, but it wasn’t until 2009 that a group of British cavers explored it for the first time. The cavers had to stop after four kilometers because a great wall blocked their way. But now, a year later, they have returned to climb past the wall and find out where the cave ends.

- 15 Inside, the team determines that in some sections, the cave soars more than 180 meters high and spreads almost 90 meters wide. An entire New York City block—complete with 40-story skyscrapers—could fit inside the cave. There are even misty clouds above—the cave is so large that it has its own weather system!

- 20 Deeper in the cave, the team members fight to keep their balance as they walk slowly through an underground river. Then they make their way through a field of huge rocks—some the size of houses. The team reaches an area where the cave’s roof has fallen in, creating two spectacular natural skylights. An explorer says “watch out for dinosaurs” as his partner walks into the light. In this dreamy place, prehistoric reptiles seem likely to appear at any moment.

- 25 The team scrambles around wet, slippery rock formations as they try to make their way toward the second skylight. They walk carefully here because a wrong step can lead to a fall of over 30 meters. The second, larger hole in the ceiling has brought down some of the jungle with it. A fantastic forest of trees rises toward the bright sun above. Monkeys, snakes, and birds live in this part of the cave jungle.

- 30 Further inside, the team slogs through a thick, muddy trench. The team’s final hurdle is its toughest challenge—they climb up a slimy 60-meter cliff made of hard minerals. After a two-day climb, they literally see light at the end of the tunnel as they reach the cave’s exit. Satisfied with the expedition to explore, map, and photograph the world’s largest cave, the team climbs out into the sunlight. They have become the first people to explore the entire length of the cave.

Comprehension

A Answer the questions about *Cave of Secrets*.

- Inference** The cave wasn't known until recently because the entrance was _____.
a. hidden
b. blocked by a wall
c. deep underground
- Detail** Clouds are formed in the cave due to its _____.
a. depth b. location c. size
- Inference** Why does the explorer say "watch out for dinosaurs"?
a. Dinosaurs used to live in the cave.
b. The cave feels like a different world.
c. The explorers were looking for dinosaur bones.
- Vocabulary** To see "light at the end of the tunnel" means to _____ something. (line 34)
a. imagine
b. understand
c. be close to completing
- Detail** Cavers successfully explored the whole cave in _____.
a. 2009 b. 2010 c. 2011

IDIOM

To "cave in" means to _____ something.

- reluctantly agree to
- be angry about
- find out about

B CRITICAL THINKING Find the words below in the article. Group them in the chart according to their meanings.

soars scramble slippery slogs muddy
spectacular dreamy fantastic hurdle slimy

More Positive

More Negative

C Talk with a partner. Do you think Hang Son Doong should be open to the public for tours? Why or why not?

Writing

Create a tourist guide. Describe an interesting landscape and give information about how it was formed.

VISIT HALONG BAY



Halong Bay is in the Gulf of Tonkin in Vietnam. There are more than 1,600 islands in the area. The islands are limestone towers that have been shaped by wind and water over millions of years. The sea continues to eat away at the bottom of the towers. The area is a popular area for boat cruises . . .

Mountain River Cave

ABOUT THE VIDEO

Ryan Deboodt took an amazing video of Hang Son Doong when he visited in 2014.

BEFORE YOU WATCH

What do you remember about Hang Son Doong? Circle the correct answers.

1. It was formed by a (**river** / volcano).
2. It's in (**Cambodia** / Vietnam).
3. It was first explored by (**British** / American) cavers.

WHILE YOU WATCH

A Check your answers to the Before You Watch questions.

B Watch the video again. Circle T for True or F for False.

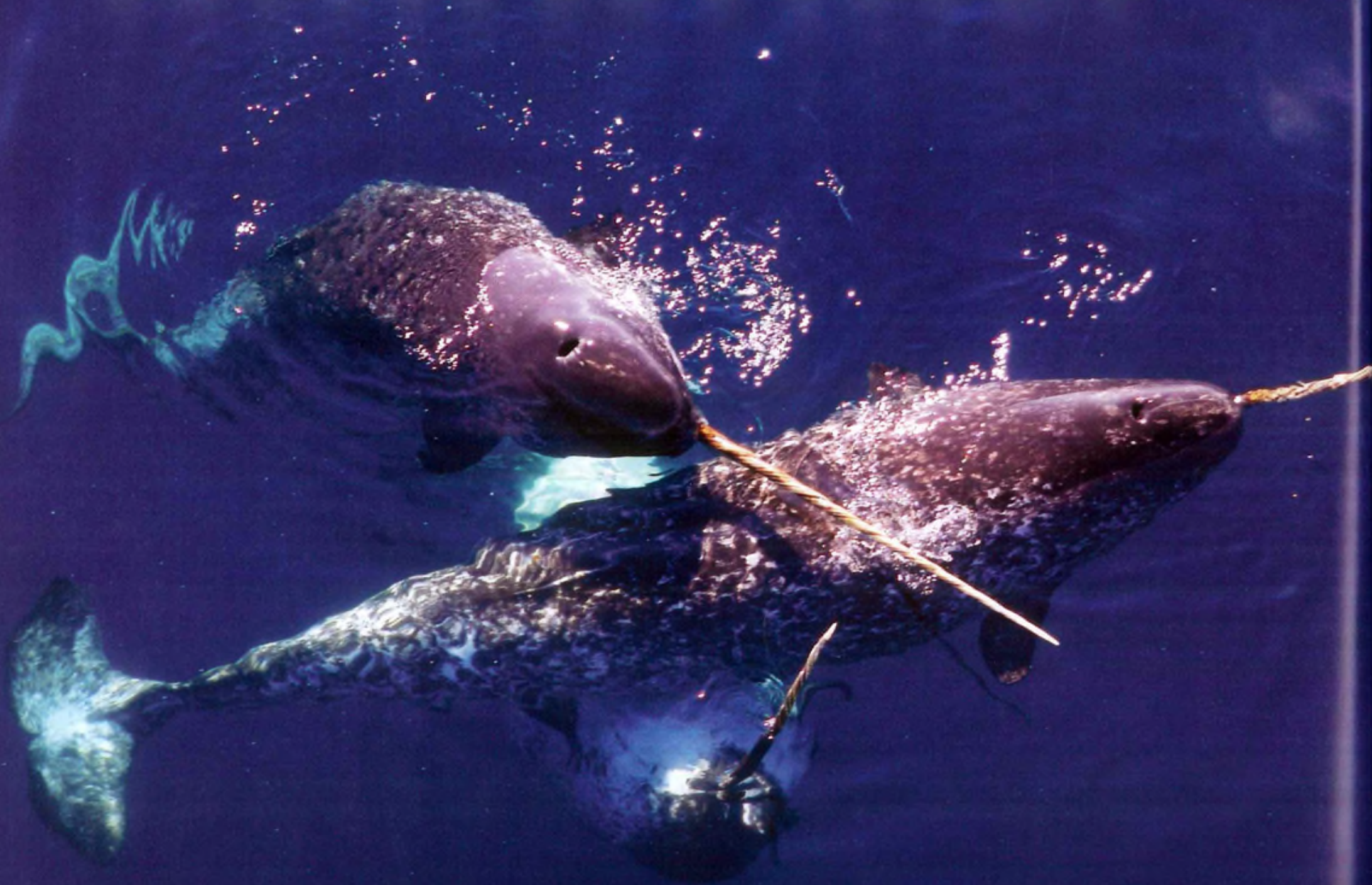
- | | | |
|--|---|---|
| 1. Deboodt stayed in the cave for eight days to make the video. | T | F |
| 2. Deboodt made the video by climbing up the cave walls. | T | F |
| 3. Fossils that are 300 million years old have been found in the cave. | T | F |
| 4. The cave is not yet open to the public. | T | F |

Cave explorers at Hang Son Doong

AFTER YOU WATCH

Talk with a partner. Would you like to visit Hang Son Doong? What are the most amazing places you've visited?

LOOK AT THAT **NARWHAL!**




A narwhal, which is a type of whale, is sometimes known as the "unicorn of the sea."

Preview

A  2-10

Listen. Write the ocean(s) each animal lives in: Atlantic (**At**), Pacific (**P**), Indian (**I**), Arctic (**Ar**), or Southern (**S**).

1. dugong _____
2. king crab _____
3. narwhal _____
4. penguin _____
5. seahorse _____

B  2-10

Listen again. Complete the sentences.

feathers flippers shells tail tusk

1. The dugong uses its _____ to swim.
2. King crabs, which can have blue, red, or gold _____, are caught for food.
3. The narwhal, which has a long, straight _____, is a type of whale.
4. Penguins, which have short, dense _____, are highly adapted for life in the Antarctic.
5. The seahorse, which is a type of fish, uses its _____ to move forward.

C

Talk with a partner. Describe an interesting sea creature you know.

The octopus can lose one of its arms when escaping from danger. It regrows its arm later.

Male seahorses give birth and care for their young.

Language Focus

A 2-11 **Listen and read.** Then repeat the conversation and replace the words in **blue**.

REAL ENGLISH

You're telling me...

B **Practice with a partner.** Replace any words to make your own conversation.

1 Look! That shell is moving!

Oh, that's a hermit crab. **They're really common** here.

You see them everywhere
You find them all over the beach

2 I've never seen one before.

Its shell, **which is for protection**, is an abandoned seashell.

which is its home
which it lives in

3 Really? Do they live in the same shell all their lives?

No, they change shells. It's **incredible** to watch.

amazing
interesting

4 If they don't like their new shell, they go back to the old one.

So, you're telling me they want the most **fashionable** shell-ter!

stylish
up-to-date

2-12

ADDING INFORMATION ABOUT THINGS AND PEOPLE

The narwhal, **which is a type of whale**, has a long, straight tusk.


The dugong, **which is a kind of mammal**, is sometimes called a sea cow.

Last weekend we went to the aquarium, **which now has a collection of seahorses**.

My uncle, **who visits every summer**, is a marine biologist.

My cousin Lisa, **who is a scuba diving instructor**, knows a lot about coral reefs.

If you have questions, ask the tour guide, **who is an expert on ocean conservation**.

C  2-13 **Complete the sentences.** Write the letters of the phrases in the box. Then listen and check your answers.

- | | |
|--|--|
| a. who sell jellyfish to restaurants in the region | b. which is faster than a person walks |
| c. which are inside their bell-shaped bodies | d. which live in oceans around the world |

Jellyfish are interesting sea creatures. They have been around for millions of years, even before dinosaurs lived on Earth. These creatures, (1) _____, have a life span of about a year. They eat fish, shrimp, crabs, and tiny plants. Jellyfish use their mouths, (2) _____, to eat and move—they squirt water from their mouths to move forward. The jellyfish is a very efficient swimmer, and swims at a speed of about 8 km/h, (3) _____. Jellyfish are sometimes caught by people for food. Fishermen in Southeast Asia, (4) _____, are usually busy during the jellyfish seasons—between March and May and August and November.

D **Rewrite the sentences.** Use *which* or *who*.

1. Whale sharks are the world's largest fish. They are shy and gentle.

Whale sharks, which are shy and gentle, are the world's largest fish.

2. Coral reefs are an important habitat for millions of animals. They are like underwater cities.

3. My uncle showed us some manta rays. He works at the aquarium.

4. *Titanic* is now an underwater shelter for marine life. It sank in 1912.

5. Alice wants to write a research paper on dugongs. She's a marine biologist.

E **Play a chain game.** Work in a group of three. At each turn, add more information to the sentence using *which* or *who*.

Jun is from Seoul.

Jun, who is our classmate, is from Seoul.



Marine Inspirations

Sometimes, we can get inspiration from nature. People study birds, for example, to learn more about flight. By studying plants and animals—how they live or move—we might be able to find creative ways to build things.

A 2-14 **Listen.** Complete the sentences.

1. Mercedes-Benz modeled their Bionic Car on the shape of a kind of _____.
2. The large front area of the car allows it to drive more smoothly in the _____.
3. The Seabreacher is a kind of _____ vehicle that copies the way marine animals swim.



A Mercedes-Benz Bionic Car

B 2-14 **Listen again.** Classify the features below. Write **B** for the Bionic Car or **S** for the Seabreacher. There may be more than one answer.

- | | |
|--|---|
| 1. _____ Fits more than two people | 2. _____ Able to dive into the water |
| 3. _____ Has a similar shape to marine animals | 4. _____ Can travel up to almost 200 km/h |

CRITICAL THINKING

Which animals or plants do you think we can study so that we can copy their features?

Pronunciation

Relative clauses

A 2-15 Listen and repeat.

1. Maria, who is the director of this aquarium, is very interested in marine conservation.
2. Ostriches, which can live for more than 40 years, are the largest birds on Earth.

B 2-16 Look at the sentences below. Add commas where necessary. Then listen and check your answers.

1. Saltwater crocodiles which are very dangerous are the largest living reptiles.
2. Cynthia who is one of my best friends visits us every summer.
3. These seal pups which are three weeks old were washed away by a storm.
4. Tom who has been studying coral reefs is giving a presentation on them next week.
5. Sea otters which live in the Pacific Ocean are very playful animals.

C Work with a partner. Take turns to read the sentences in B.

DO YOU KNOW?



Some species of ____ mate for life.

- a. sea otter
- b. albatross
- c. hermit crab

Communication

Play a guessing game. Work in a group. **Group A:** Turn to page 129. **Group B:** Turn to page 131. Follow the instructions on the page.

This animal, which has a life span of about 23 years, lives in the Pacific Ocean.

Is it a whale shark?

No, sorry. Here's another clue. It eats three hours a day to stay warm.



Reading

- A** Look at the title and the photos. What do you think the article is about?
- B** Skim the article. Write the letters of the subheaders in the correct places.
- a. Reefs in Trouble
 - b. Big Challenges
 - c. Supersize Cities
 - d. Why Are Reefs Important?
- C** Talk with a partner. Do you think coral reefs are important to us? Why?



Coral polyps

The Great Barrier Reef in Australia



CITIES in the SEA

2-17

They may be small, but they build big things! Coral polyps, which live in the warm, shallow parts of the Earth's oceans, are probably the biggest builders on the planet. Coral polyps turn calcium from seawater into a hard material called limestone. Slowly, they build up a hard skeleton around their bodies. When polyps die, their skeletons remain. Young polyps attach themselves to the old skeletons and make new skeletons. Over time, weird and wonderful shapes are slowly built up into amazing coral reefs.

Some coral reefs are huge, and the Great Barrier Reef in Australia is the largest of them all. It covers 350,000 square kilometers.

- 10 Scientists sometimes think of coral reefs as underwater cities. A quarter of all known marine species live in reef habitats—there are nearly a thousand coral species. Reefs are also home to millions of sea creatures, like fish, crabs, turtles, and sharks.

Humans don't live in coral reef cities, but we benefit from them. Reefs create jobs for people in the fishing industry and other related businesses. They also supply us with food. Reefs protect our coasts—the coral slows waves down and protects beaches from erosion.

Coral reefs are also popular for divers—many countries benefit from the tourists that they attract. Lastly, chemicals from reef creatures help scientists create new medicines, which help doctors treat different illnesses.

- 20 Coral reefs are very important, yet we don't take good care of them. Environmental problems have already killed about twenty percent of the world's reefs. About half of the remaining reefs are dying, and experts believe all of Earth's coral reefs will be in danger by 2050.

Why are the reefs in such trouble? For one thing, people catch too many reef fish and often damage the reefs—divers sometimes break off pieces of coral. Many people make and sell coral jewelry, too.

Polluted water also causes problems because reef-destroying algae grows in dirty water. Even air pollution hurts coral reefs. Global warming causes warmer ocean water, which can cause polyps to lose helpful algae. Without that algae, coral turns white. This is called "bleaching," and if it continues, the coral dies.

Can we save coral reefs? Experts say yes—if we make hard choices. Many people around the world are working to protect reefs, but we need to do more. More than 100 countries have created marine protected areas, where fishing is limited or even banned. Another important step is fighting pollution.

- 35 Humans and coral polyps are very different, but we both build amazing cities. We will both benefit if people protect our beautiful oceans.

Comprehension

A Answer the questions about *Cities in the Sea*.

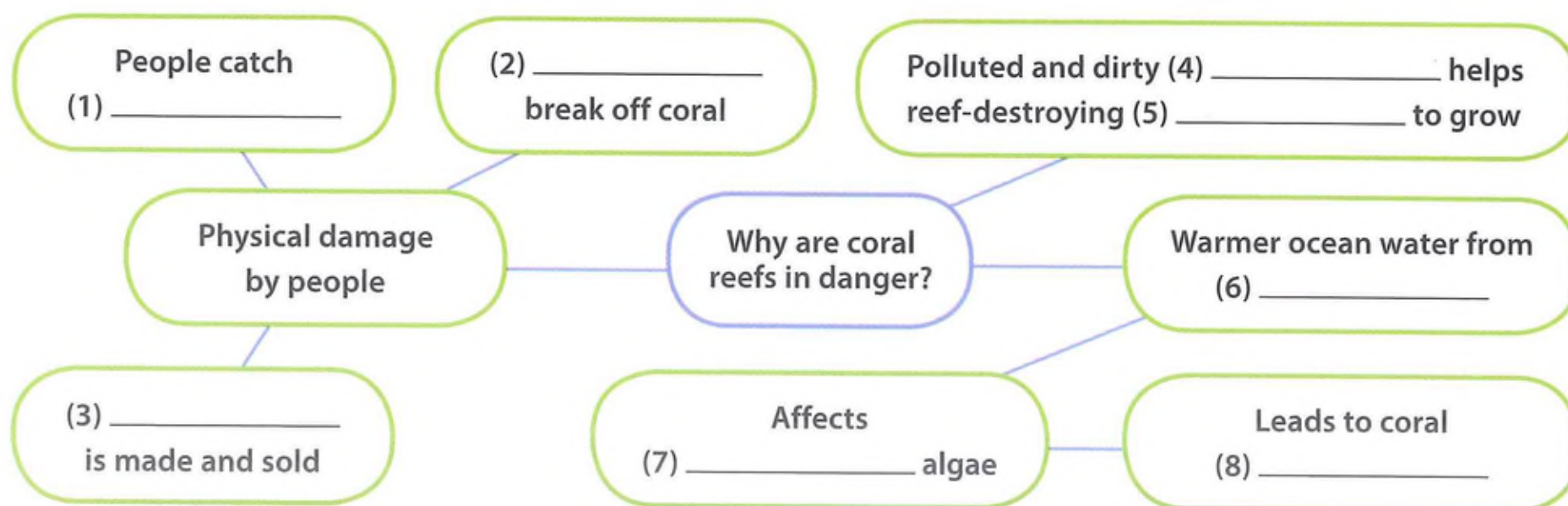
- Purpose** The purpose of the article is to _____.
 - show how to protect coral reefs
 - explain why coral reefs are important
 - tell readers about the Great Barrier Reef
- Vocabulary** A "habitat" is a place where _____. (line 11)
 - people fish
 - animals or plants naturally live
 - animals or plants are few
- Detail** Coral reefs help protect coasts by _____.
 - absorbing pollution
 - releasing important chemicals
 - slowing down waves
- Detail** About _____ percent of the world's coral reefs have died.
 - 20
 - 50
 - 80
- Inference** The helpful algae give corals their _____.
 - color
 - hardness
 - size

IDIOM

If you think something is "fishy," you think it's _____.

- suspicious
- brilliant
- comical

B Complete the word web. Use the words from the article.



C CRITICAL THINKING Talk with a partner. What kinds of "hard choices" do you think we need to make to save the coral reefs?

Writing

Write a formal letter.
Persuade a government official to protect the coral reefs.

Send | Forward | Reply | Save | Close | Print | Contacts

To: Benjamin Moore

Subject: Save our reefs

Dear Sir,

I am writing about the state of the coral reefs in our country. We have beautiful corals near our beaches, but they have suffered a lot of damage recently from fishermen and tourists. I feel that we can protect our coral reefs by ...

Saving Our Reefs

ABOUT THE VIDEO

Coral reefs are important habitats for many marine animals, and we should protect them.

BEFORE YOU WATCH

Check (✓) the words you think describe coral reefs.

- ☐ endangered ☐ a type of marine plant ☐ mainly found in deep water
☐ colorful ☐ sensitive to environmental changes

WHILE YOU WATCH

A Circle the correct answers.

1. The reef's structure is formed by the (**waste** / **outer skeletons**) of the polyps.
2. A bleaching event occurs when the water becomes too (**warm** / **cold**).
3. Marine plants use carbon dioxide to (**make food** / **breathe**).

B Watch the video again. Number the sequence of events (1–5).

- _____ Human activities increase the amount of carbon dioxide in oceans.
 _____ Many species could become extinct as a result.
 _____ Sea creatures that depend on the tiny animals die.
 _____ The water becomes acidic.
 _____ The shells and skeletons of tiny sea creatures are destroyed and they die.

AFTER YOU WATCH

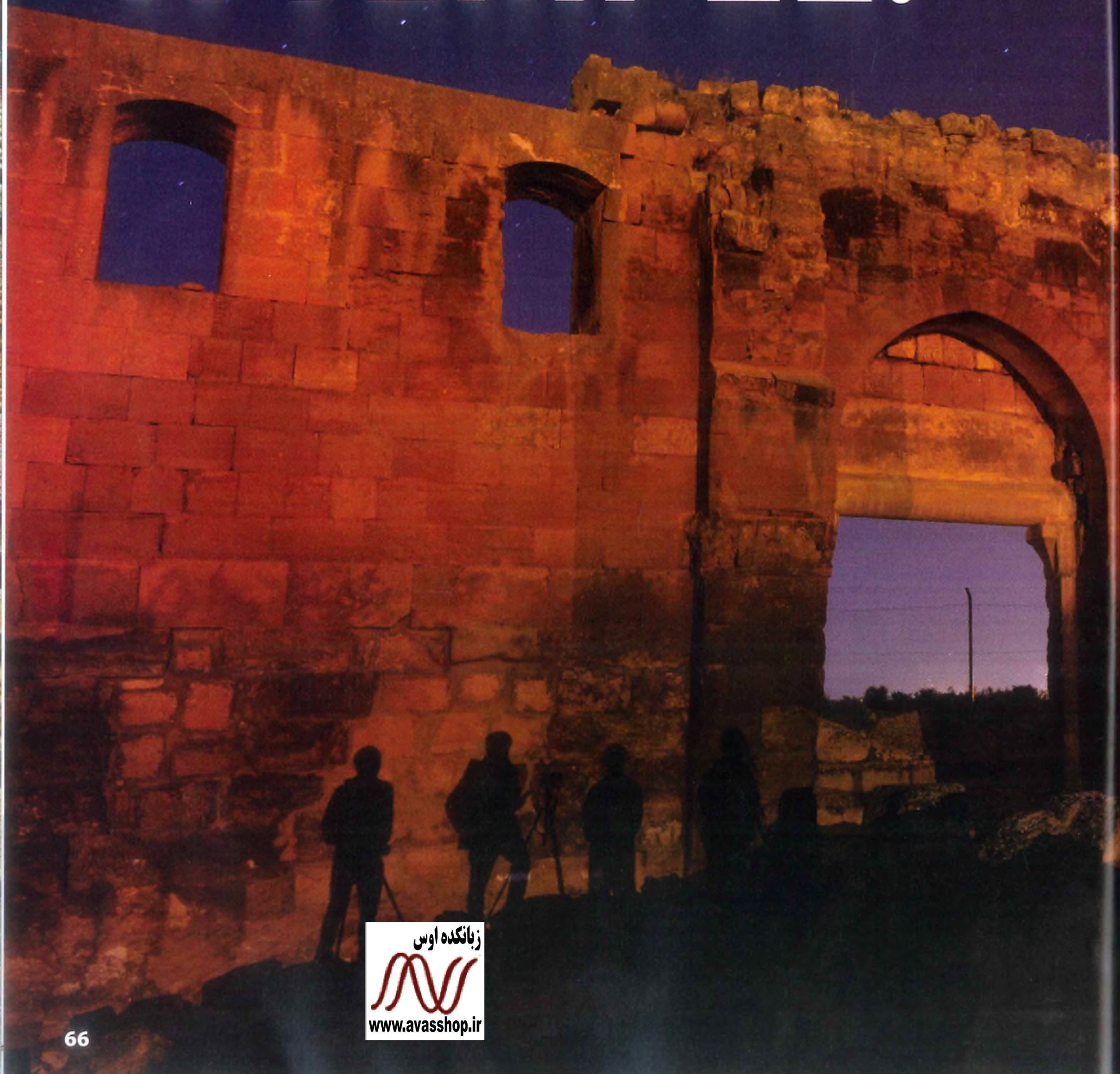
Talk with a partner. Would you want to go diving to see coral reefs? In which areas in the world are coral reefs mainly found?

A scientist studying coral reefs



7

IT MIGHT HAVE BEEN **A TEMPLE.**



Preview


A  2-18 **Listen.** Number the titles in order (1-3). One title is extra.

____ Lost Treasure

____ An Early Civilization

____ An Ancient Temple

____ Mysterious Stones

B  2-18 **Listen again.** Complete the sentences using the words in the box.

invaders statues religion treasure records

1. The _____ on Easter Island could have been used for religious purposes, but there aren't any written _____ from this period to prove it.
2. The Inca king offered gold to the Spanish _____.
3. The Inca _____ might be buried somewhere in the mountains.
4. The temple ruins in Turkey are important because they show that _____ may have come before humans began living in communities.

C **Talk with a partner.** Choose one location and retell the story.

There might be some lost Inca treasure in the mountains.

The Spanish captured an Inca king. They ...

**Ruins of a temple
in Turkey**

Language Focus

REAL ENGLISH Check this out!

A 2-19 Listen and read. Then repeat the conversation and replace the words in **blue**.

B Practice with a partner. Replace any words to make your own conversation.

1 Look what I found **behind the school**.

What is it?

near the playground on the soccer field

2 I think it's made of stone.

It **could** be an ancient arrowhead.

might must

3 Cool! It must have been used **to hunt wild animals**.

We should take it to the natural history museum.

to fight other tribes in fierce battles

4 Hey, Stig! Check this out!

I've been looking for **that!** I made it in my jewelry-making class.

I lost that the other day. Where did you get that?

2-20

DESCRIBING PROBABILITY

| | Less Sure | More Sure |
|----------------|--|---|
| Present | The lost treasure could/might be in a cave. But the treasure might not even exist. | It can't/couldn't be in that cave. It's too high. There are many jewels on this necklace. It must be very valuable. No one's ever found it. It must not exist. |
| Past | This house could/might have belonged to the royal family. However, it might not have belonged to an important person at all. | The house is huge, so it must have belonged to the royal family. There are bedrooms in the building, so it couldn't have been a temple. |

C 2-21 **Circle the correct answers.** Then listen and check.

1. Mary: This ruin used to be a huge building. What do you think it was used for?
Greg: I don't know. It 1. (**might have been** / **must have been**) a temple. What do you think?
Mary: No, it 2. (**couldn't have been** / **might not have been**) a temple because there's one right next to it.
2. Ellen: I have no idea whose notebook this is. It 3. (**might be** / **must be**) Jessie's.
Lionel: Oh, here's a photo of a puppy. It 4. (**must have belonged** / **must belong**) to Laura. She just got a puppy.
3. Alice: Do you think Easter Island's population shrank because of disease?
Jon: Definitely. Disease 5. (**could have played** / **must have played**) a big part.
Alice: Yeah, but maybe there were other reasons, too. For example, some people 6. (**might have left** / **must have left**) the island because it was getting too crowded.

D **Rewrite the sentences.** Use the words in parentheses.

1. It's possible that the treasure is in a cave. (**could**)
The treasure could be in a cave.
2. I'm certain that this building is a temple. (**must**)

3. They definitely got the stone from this valley. (**must**)

4. It's impossible for this site to contain any artifacts. (**can't**)

5. It's possible that they didn't leave any written records. (**might not**)

E 2-22 **Work in a group.** Listen to the stories of three mysteries and take notes. What do you think happened? Discuss your ideas.

A weather balloon might have crashed at Roswell.

Maybe. Or it could have been a secret plane.



Tomb Hunter

Albert Lin is a National Geographic Explorer. He is a modern-day tomb hunter. He's trying to answer one of history's greatest mysteries: Where is the tomb of the Mongol leader Genghis Khan? Ever since he took a backpacking trip to Mongolia, Lin has been searching for the great leader's final resting place.



A 2-23 **Listen.** Mark each sentence as **F** for Fact or **T** for Theory.

1. Genghis Khan was the leader of a large empire in the 13th century. _____
2. Genghis Khan is buried in the Forbidden Zone. _____
3. The Forbidden Zone is now open to some researchers. _____
4. Genghis Khan was buried with a great deal of treasure. _____

B 2-24 **Listen.** Check (✓) the techniques Albert Lin uses.

- | | | |
|--|--|---|
| <input type="checkbox"/> crowdsourcing | <input type="checkbox"/> digging in the ground | <input type="checkbox"/> studying satellite images |
| <input type="checkbox"/> computer scanning | <input type="checkbox"/> creating 3-D images | <input type="checkbox"/> entering underground tombs |

CRITICAL THINKING If Genghis Khan's tomb is found, do you think it should be opened? Why or why not?

Pronunciation

Reduction: *have*

A  2-25 Listen and repeat.

1. It could have been a hidden treasure.
2. They must have lived in the building.

B  2-26 Listen. Complete the sentences.

1. He _____ home already.
2. It _____ an early civilization.
3. They _____ this arrowhead in a battle.
4. This _____ to a king.
5. Jason _____ those things.
6. I _____ my name on my test.

C Work with a partner. Take turns to read the sentences in B.

DO YOU KNOW?



Genghis Khan's portrait can be found on _____ today.

- a. the Mongolian flag
- b. the Mongolian state symbol
- c. Mongolian currency

Communication

Solve a puzzle. Work in a group. You are on a quest to find treasure from different civilizations. There are three chests, each containing an item from a certain culture. Each chest is in a different place. Use the clues to complete the chart below.

CULTURE

Aztec, Inca, Maya

ITEMS

mask, cup, bowl

PLACES

mountain, cave, jungle

CLUES

The Maya chest is one number smaller than the Inca chest.

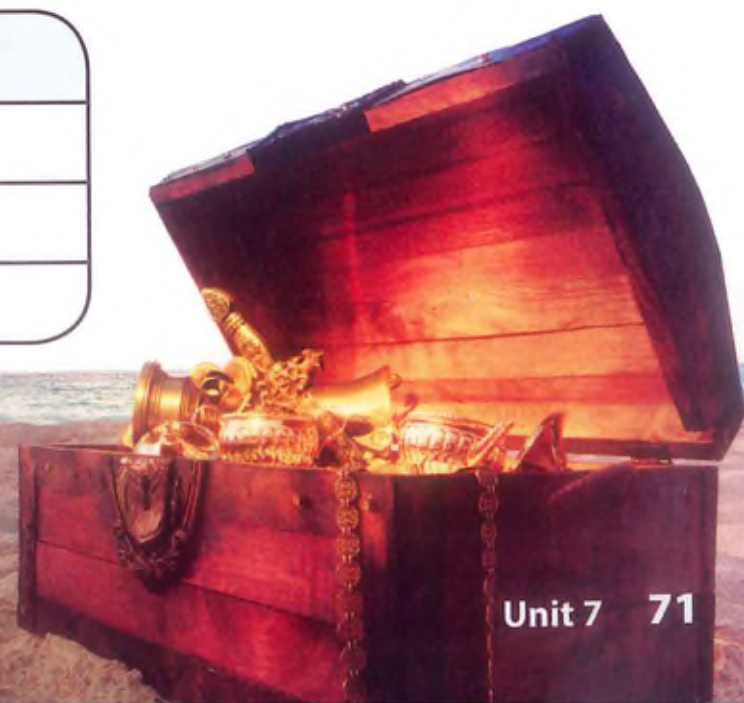
The Aztec chest can't be Chest 1, but must contain the cup.

Chest 2 is in a cave.

Chest 1 contains the bowl, but isn't in the jungle.

| CHEST | CULTURE | ITEMS | PLACE |
|-------|---------|-------|-------|
| 1 | | | |
| 2 | | | |
| 3 | | | |

The Maya chest could be Chest 1 or 2.



Reading

- A** Look at the title and the photo. What do you know about the Maya? When and where did they live?
- B** Skim the article. What did archaeologists use to think happened to the Maya? What do they think now?
- C** Talk with a partner. What other ancient civilizations do you know?

Mayan temple ruins in Tikal, Guatemala



MAYA MYSTERY

by Guy Gugliotta, writing for National Geographic

2-27

A lost world is hidden in the rain forests of Central America. There, the Maya built incredible cities. The Maya civilization was at its peak for 750 years, but about 1,000 years ago, the cities were abandoned. Today, the cities are empty. Trees and plants cover the old buildings, and many temples are now ruins. What happened? Why did the Maya leave their
5 beautiful cities?

For years, archaeologists thought that a disaster, like a volcano or an earthquake, must have hit the Maya. Diseases, which were brought by invaders, might have spread through the population. However, researchers now think the Maya had a lot of different problems. One was that the population was probably too big, which must have put too much pressure on
10 the environment.

To understand what happened to the Maya, National Geographic sent me to Central America. I visited Maya cities and talked to the archaeologists who are studying them.

One hot day, I stood next to a river near the ruins of Cancuén. It used to be a great city, but everything changed 1,200 years ago. Invaders came suddenly—probably by boat. I
15 pictured them as I looked at the river. In my mind, I saw the invaders fighting the soldiers first at the river and then in the town.

I followed the path that the invaders must have taken, which led to the ruins of a large red pool. The pool once provided drinking water for the city. Then it became a tomb. The invaders killed the city's leaders and threw their bodies into the water. They killed the king
20 and queen, too, and buried them nearby.

The invaders then left, taking nothing of value. No one knows who they were, what they wanted, or where they went. The city's population must have been scared because they escaped into the rain forest.

The fall of Cancuén was sudden and terrifying. Since then, the reason for the city's strange
25 end has been a mystery to archaeologists.

I learned a different story in Tikal—one of the greatest Maya cities. 1,300 years ago, about 55,000 people lived there. The city had about 3,000 major buildings. But, like Cancuén, its people left.

Archaeologists think Tikal might have had a drought, which would have made it hard to
30 grow food. War with neighboring cities might also have made Tikal weak. The Maya believed that their leaders were gods, so when the king couldn't bring rain or protect them, people started to question his power. Their community might then have fallen apart.

Walking among the temples at Tikal, I imagined the people living there in the city's last days. I could picture them hungry, tired, and scared. Like the Maya in Cancuén, they left
35 behind a great city and a great mystery.

Comprehension

A Answer the questions about *Maya Mystery*.

- Main Idea** What is the mystery in the title?
 - Why did the Maya civilization disappear?
 - Who were the Maya people?
 - Where did the Maya hide their treasure?
- Inference** The archaeologists thought the Maya probably died from a disaster or disease because _____.
 - their deaths were sudden
 - the Maya had a lot of enemies
 - they were bad at farming
- Detail** Why did invaders attack Cancuén?
 - to take their treasure
 - to kill the king
 - No one knows.
- Vocabulary** The word “drought” means a period of time without any _____. (line 29)
 - workers
 - rain
 - sun
- Detail** What is known to be true about Cancuén but not Tikal?
 - Its people left the city.
 - Its people believed in gods.
 - Its king and queen were killed.

B Read the sentences below. Mark each one as **F** for Fact or **T** for Theory.

- The Maya civilization was at its peak for about 750 years. _____
- The Maya population shrank because of a natural disaster. _____
- The city of Cancuén was abandoned 1,200 years ago. _____
- The people who invaded Cancuén came by boat. _____
- Tikal had a drought, which made it hard to grow food. _____
- War with neighboring cities made Tikal weak. _____
- The Maya believed that their leaders were gods. _____

C Talk with a partner. What mystery in this unit would you like to help solve? Why?

IDIOM

To “get to the bottom of” a mystery is to ____.

- leave it unsolved
- find out its cause
- tell people about it

Writing

Write a short essay. Describe a mystery you know.

Crop Formations

Every year, mysterious crop circles or formations appear in fields in England. Some people think aliens might have made them. Others think that people made them as a prank . . .

Tutankhamun

ABOUT THE VIDEO

Scientists are trying to solve the mystery of Tutankhamun's death.

BEFORE YOU WATCH

Circle the correct answers. What do you know about Tutankhamun?

1. Tutankhamun became King of Egypt when he was (9 / 17) years old.
2. Tutankhamun was (18 / 28) when he died.
3. Tutankhamun died around (300 / 3,000) years ago.

WHILE YOU WATCH

A Check your answers to the Before You Watch questions.

B Watch the video again. Check (✓) the three possible theories for King Tut's death that are mentioned in the video.

1. He might have been bitten by a snake. ☐
2. He could have been killed during a battle. ☐
3. He might have died as a result of a hunting accident. ☐
4. He might have had a terrible illness. ☐
5. He could have been murdered. ☐
6. He could have died in a fire. ☐

AFTER YOU WATCH

Talk with a partner. What theory did the scientists in the video think was most likely? Do you think the evidence was strong?



The mummy of Tutankhamun was not discovered until 1922.

IT'S TALLER THAN THE **EIFFEL TOWER!**

The minute hand
of the Mecca clock
is 22 meters long.

Preview

A  2-28 **Listen.** Complete the sentences using the correct forms of the words in the box.

long interesting tall deep large

1. Arsenalna Station is the _____ metro station in the world.
2. The Seikan Tunnel is the _____ and deepest underground rail tunnel.
3. The Gherkin is one of the _____ buildings in London.
4. The Oasis of the Seas is the _____ cruise ship in the world.
5. The Abraj Al-Bait Towers has the world's _____ clock tower.

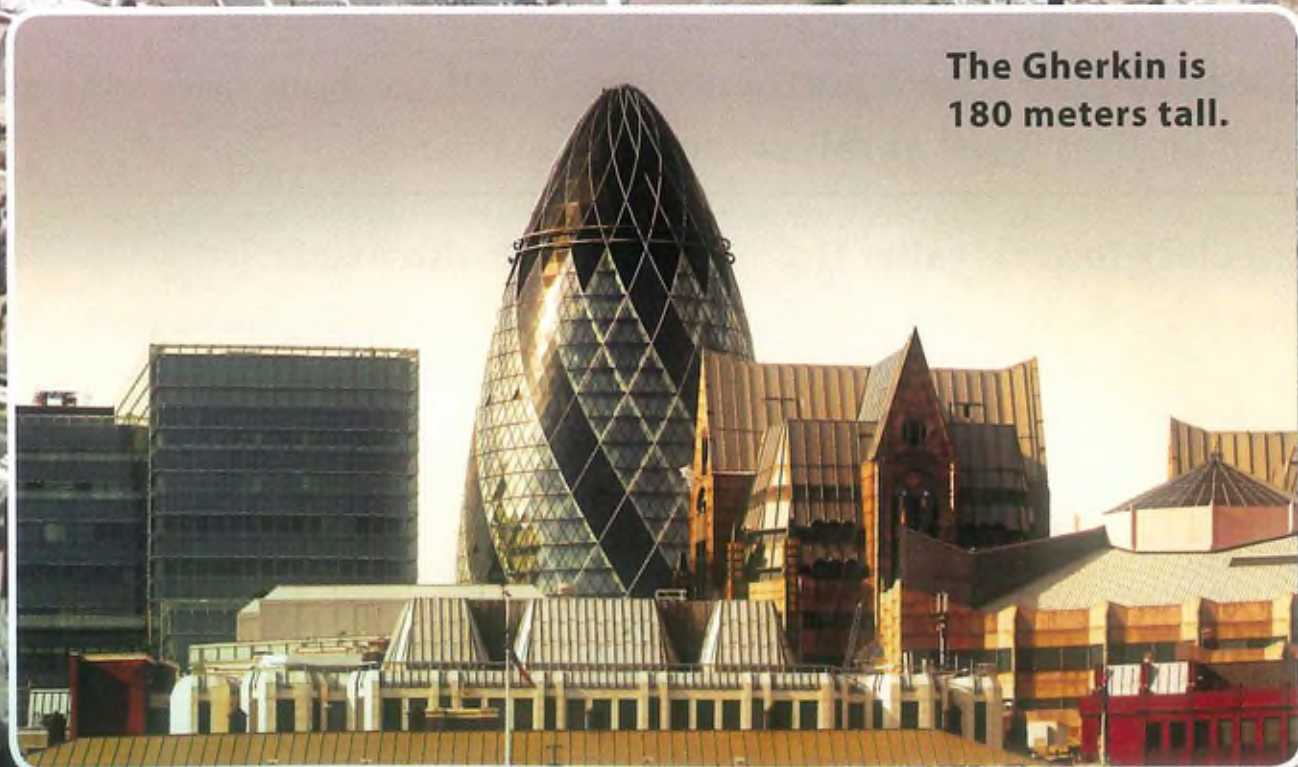
B  2-28 **Listen again.** Circle the correct answers.

1. At about (**105** / **205**) meters deep, Arsenalna Station is too deep to reach on a single escalator.
2. Almost half of the Seikan Tunnel runs (**through mountains** / **under the sea**).
3. The 16th floor of The Gherkin is the (**largest** / **most interesting**).
4. The Oasis of the Seas is just as (**long** / **tall**) as its sister ship, the Allure.
5. The Abraj Al-Bait Towers is (**shorter** / **taller**) than Shanghai Tower.

C **Talk with a partner.** What is the most impressive man-made structure in your country? What do you know about it?

There's a new skyscraper downtown that's really tall.

I think it's the tallest in the city.



The Gherkin is
180 meters tall.

Language Focus

REAL ENGLISH

That's too bad.

A 2-29 **Listen and read.** Then repeat the conversation and replace the words in **blue**.

B **Practice with a partner.** Replace any words to make your own conversation.

1 So, you've never been to the top of this skyscraper before?
No, I can't wait to **see the view!**
get to the top
see the city from the top

2 This elevator is really **fast**.
I think it's the **fastest** elevator I've ever been in.
small / smallest
noisy / noisiest

3 Aw, you can't see much. It's **too cloudy**.
That's too bad.
too misty
not clear enough

4 Hey, where's Stig?
Come on out! It's not as **scary** as you think!
bad
frightening

2-30

DESCRIBING AND COMPARING THINGS

You can't get to Arsenalna Station on a single escalator. It's **too deep**.

Celia is **old enough** to drive. She's twenty-one.


The Oasis of the Seas is just **as tall as** the Allure of the Seas.

The Mecca Clock Tower is **taller than** Taipei 101. It's also **newer**.

The Empire State Building was **more expensive than** The Gherkin to build.

The Seikan Tunnel is **the longest** undersea tunnel in the world. It's also **the deepest**.

The Burj Khalifa is **the most famous** skyscraper in Dubai.

C  2-31 **Complete the sentences.** Use the words in the box with *too* or *enough*. Then listen and check your answers.

expensive hungry slow old tall wide

1. I can't afford the ticket price to the observation deck. It's _____.
2. Jay is 15. He isn't _____ to drive yet.
3. Six cars can't drive side by side on that bridge. It's not _____.
4. This train is _____. We'll never get to the movie theater in time.
5. I'm not _____ to reach the shelf. Can you help me?
6. Sorry, but I already ate. I was _____ to wait for you!

D **Complete the sentences.** Use the correct forms of the words in parentheses.

(1) The most memorable (**memorable**) way to see New York City is from one of its many skyscrapers. (2) _____ (**famous**) is surely the Empire State Building. But some visitors who have gone to Top of the Rock at Rockefeller Center say the view from there is just as good as the view from the Empire State Building. Others even claim that the view is actually (3) _____ (**good**) in the whole city. Tickets, however, are just (4) _____ (**expensive**) those at the Empire State Building. But Top of the Rock's lines are shorter and its elevator is (5) _____ (**fast**). So while Top of the Rock is not (6) _____ (**famous**) the Empire State Building, it's attracting more and more tourists.

E **Work in a group.** Pick one structure below and compare it to something else. Add your own ideas. Take turns.

The Eiffel Tower

The Great Wall of China

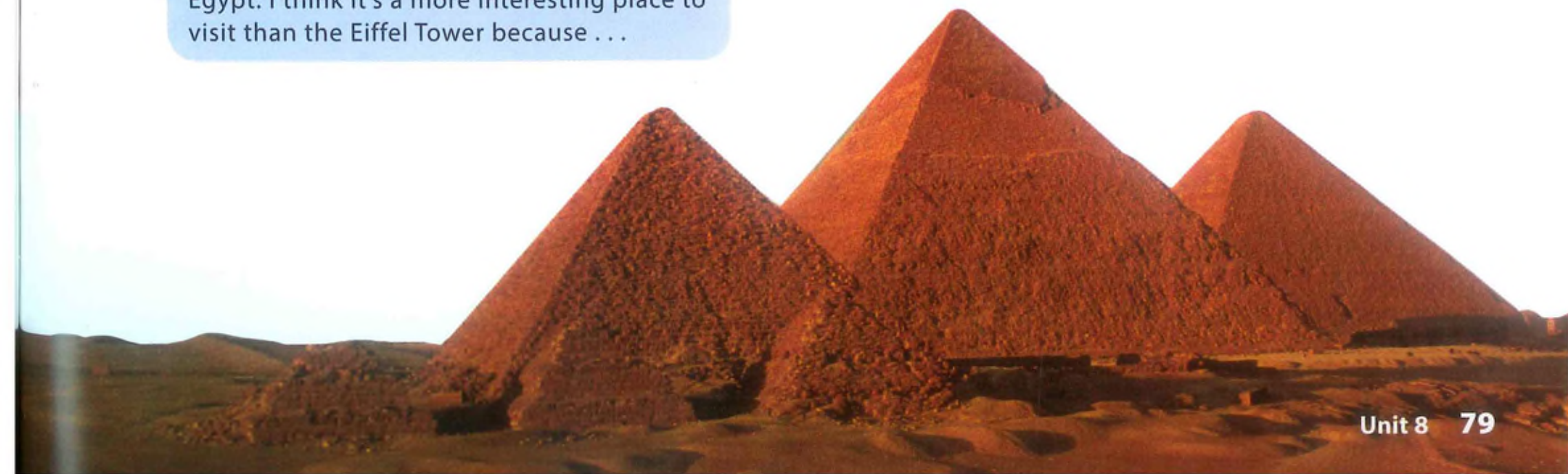
Machu Picchu

The Great Pyramid

The Leaning Tower of Pisa

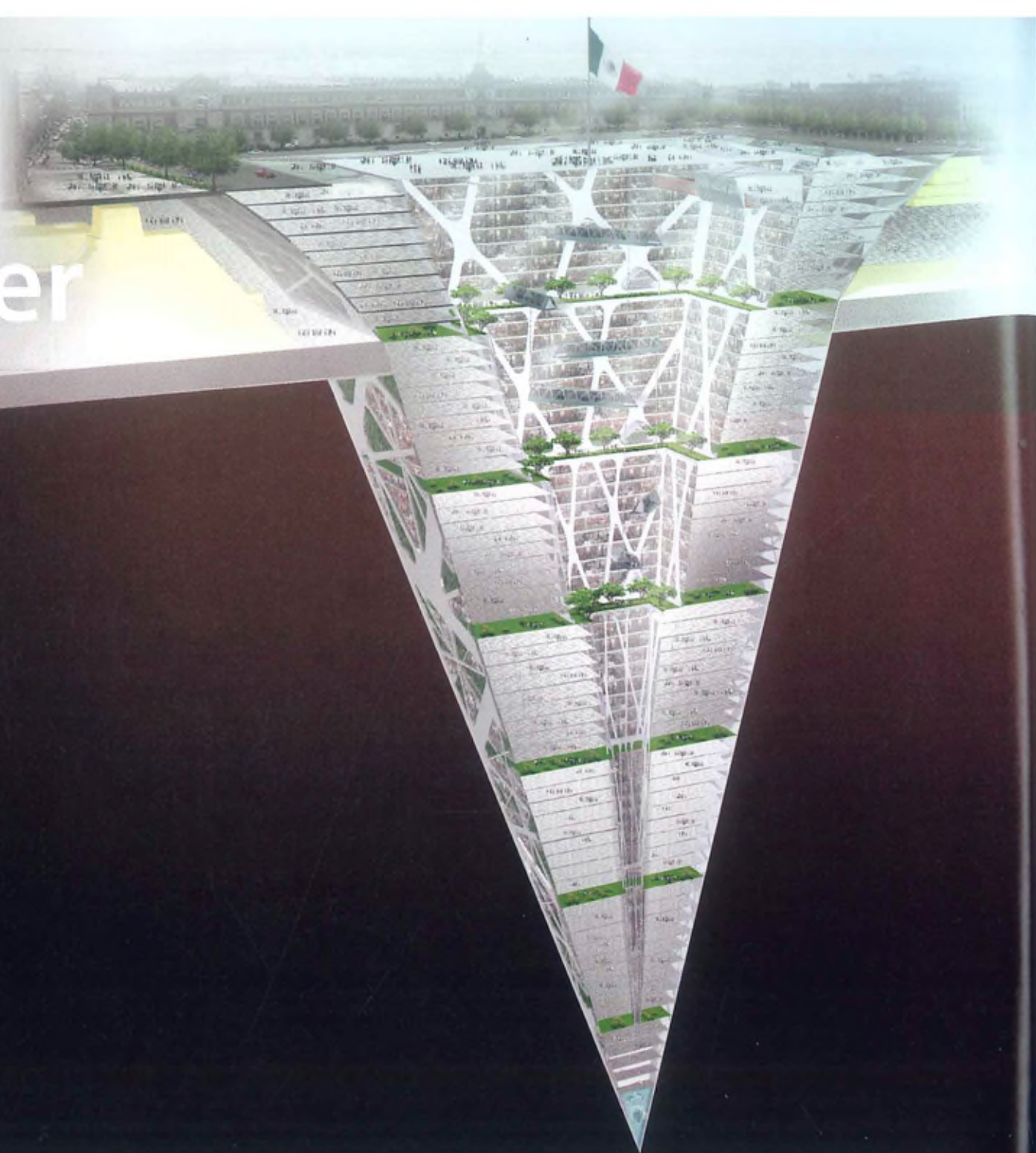
The White House

The Great Pyramid is the largest pyramid in Egypt. I think it's a more interesting place to visit than the Eiffel Tower because ...



Earthscraper

As cities get bigger and bigger, the traditional solution has been to build skyscrapers. But architects in Mexico City—one of the world's largest cities—have another idea. Instead of building up, they want to build down. If this building gets built, it will be the world's first earthscraper.



A 2-32 **Listen.** Complete the chart with information about Earthscraper.

| | |
|---------------------|--|
| Number of stories | |
| Depth | |
| Reason for building | |
| Location in city | |

B 2-32 **Listen again.** Circle **T** for True or **F** for False.

- | | | |
|--|----------|----------|
| 1. Earthscraper will be taller than the Eiffel Tower. | T | F |
| 2. Earthscraper has a glass top to allow sunlight in. | T | F |
| 3. The museum will showcase cultures around the world. | T | F |
| 4. Earth lobbies will help to make the air in the building better. | T | F |

CRITICAL THINKING

Do you think Earthscraper will be built someday? Would you like to live in a building like this?

Pronunciation

Emphatic stress

A  2-33 Listen and repeat.

1. The new plane is **much** faster than the previous model.
2. The Twister roller coaster is **way** too scary for me!
3. The new bridge is **just** as long as the old one.

B  2-34 Listen. Underline the stressed words.

1. The view from here is a lot better than I thought.
2. The price of the high-speed train is way too expensive.
3. The new stadium is a little easier to get to.
4. I told you this bridge is just as long as the City Bridge.
5. The car we rented was not nearly big enough for all of us.
6. The seats on the new ferry are so much more comfortable.

C Work with a partner. Take turns to read the sentences in B.

**DO YOU
KNOW?**



The first building in the world to have more than 100 floors was ____.

- a. the John Hancock Center
- b. the Empire State Building
- c. Taipei 101

Communication

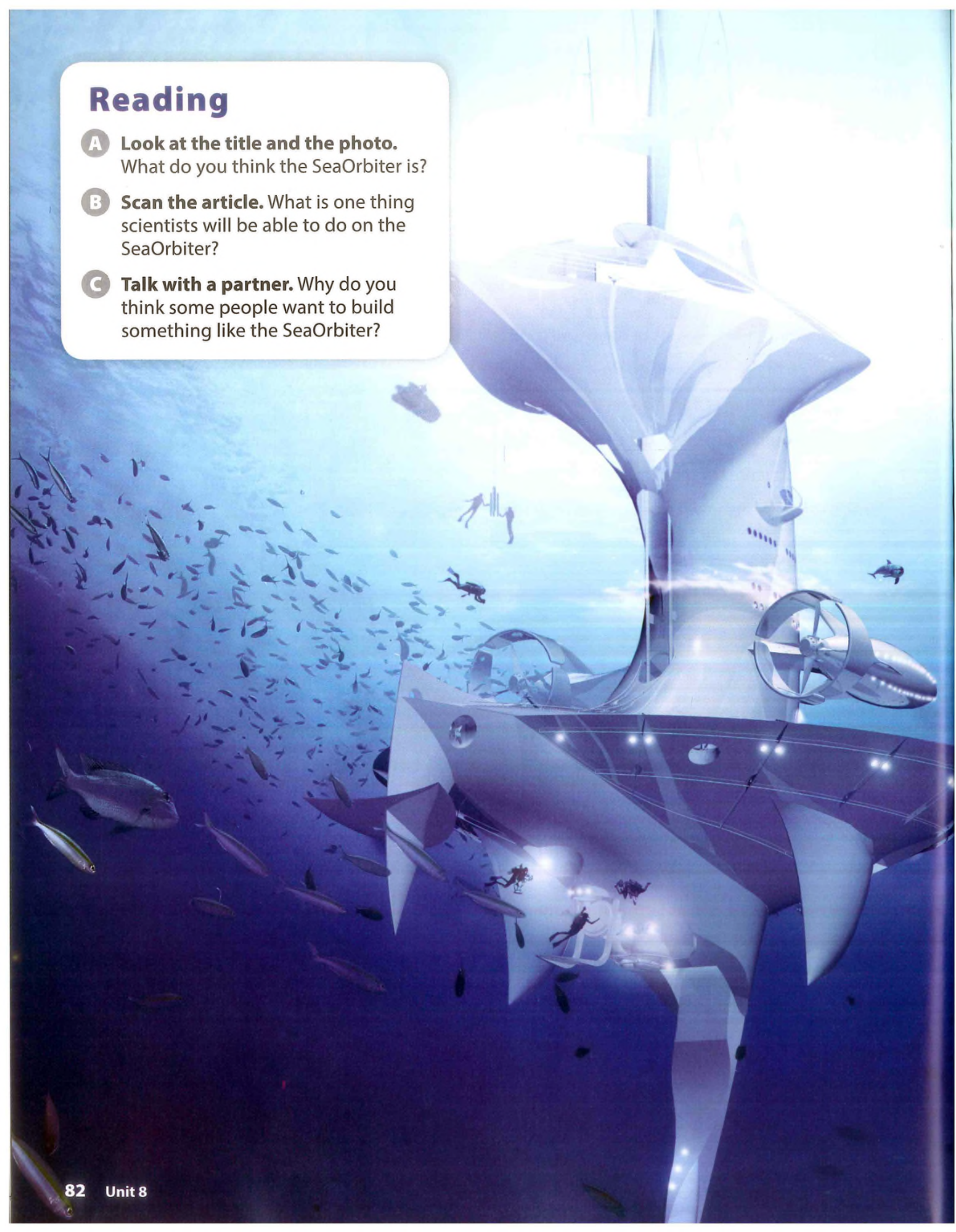
Create a quiz. Work with a partner. Complete the sentences to create a true/false quiz. Then test your quiz on another pair.

1. _____ is the biggest _____ in the world.
2. _____ is much higher than _____.
3. _____ is not as long as _____.
4. _____ is faster than _____.
5. _____ is farther north than _____.
6. _____ has a smaller population than _____.
7. _____ is the oldest _____.
8. The _____ is too _____ to _____.
9. The most _____ country in the world is _____.
10. _____.

Châtelet-Les Halles station in Paris is the biggest underground train station in the world. True or false?

Reading

- A** Look at the title and the photo. What do you think the SeaOrbiter is?
- B** Scan the article. What is one thing scientists will be able to do on the SeaOrbiter?
- C** Talk with a partner. Why do you think some people want to build something like the SeaOrbiter?



SEAORBITER

2-35

Staring out of your bedroom window, you watch as a great white shark swims by. Soon an octopus comes into view, followed by a jellyfish. You're on the SeaOrbiter, one of the most high-tech vessels ever created for ocean exploration.

- 5 The 60-meter-tall vessel, which is being built with support from the National Geographic Society, has an unusual design. The top half is above the ocean's surface, while the bottom is underwater. Unlike a ship, the SeaOrbiter is so energy-efficient that it can stay in the water for long periods without returning to land to refuel. "Scientists can observe the
10 oceans for months or even years on end," SeaOrbiter operations director Bill Todd says.

While other vessels make a lot of noise as they move through water, the SeaOrbiter will be quiet. Although the vessel won't make much noise, it will pick up plenty. Super-sensitive underwater recorders will capture
15 sounds from marine life, such as whales that are too far below the vessel to be seen. Check out some of the SeaOrbiter's coolest features:

The Lab An egg-shaped space with three levels, the above-water marine lab will have several aquariums. These will contain small marine animals that scientists can view up close. They can also use the high-tech lab
20 equipment to test pollution levels in seawater.

Power Sources With more than 280 square meters of solar panels on its sides and the wind turbine near the top, the SeaOrbiter will mostly run on solar and wind energy. Its motors will only be turned on when necessary, such as when entering a port. "The vessel is very eco-friendly," Todd says.
25 "Our goal is to study the ocean without changing it."

Divers Delight The diving equipment room is located seven meters above the ocean. After putting on scuba gear, scientists will be able to take an outdoor elevator and go 12 meters below the water's surface.

Remotely Operated Vehicles Below the surface are Remotely Operated
30 Vehicles, devices that let scientists explore underwater mountains, canyons, and even shipwrecks without leaving the vessel. These vehicles can travel deep into the ocean while sending live video back to the SeaOrbiter.

Life Onboard With room for 22 people, the living area on the SeaOrbiter will be of top quality. Bedrooms will come with TVs, computers, and large
35 underwater windows acting as personal aquariums. There will be several classrooms and even a fitness center.

When the SeaOrbiter is launched, it will sail to remote parts of oceans. It will move with the currents while scientists conduct research. This incredible vessel, says Todd, "will help us uncover the secrets of the sea."

Comprehension

A Answer the questions about *SeaOrbiter*.

- Main Idea** The SeaOrbiter is mainly going to be used as a _____.
 - research vessel
 - five-star hotel
 - high-tech weather station
- Detail** What is not mentioned as an advantage the SeaOrbiter has over a regular ship?
 - It's quieter.
 - It's more efficient.
 - It can move more quickly.
- Detail** The SeaOrbiter gets most of its energy from _____.
 - the sun and wind
 - seawater
 - wind and ocean currents
- Vocabulary** A "port" is a place where _____. (line 24)
 - scientists do research
 - many marine animals live
 - ships stop to load or unload
- Inference** Scientists on the SeaOrbiter can probably study an animal 3,000 meters below the vessel by sending _____.
 - a team of divers with a video camera
 - a remotely controlled vehicle
 - a submarine with a diver inside

B Mark where these places are located on the SeaOrbiter. Are they above the sea (A) or below the sea (B)?

_____ sound recorders _____ the lab _____ the wind turbine
_____ dive equipment room _____ remote controlled vehicles _____ bedrooms

C CRITICAL THINKING Talk with a partner. Do you think it's important to explore the oceans? What might be challenging about life aboard the SeaOrbiter?

IDIOM

When something is "smooth sailing," it's _____.

- moving fast
- difficult to do
- progressing well

Writing

Create a poster of an interesting man-made structure. Include details about its location, who created it, when it was created, why it's impressive, and how it compares to similar structures.



The Sheraton Huzhou Hot Springs Resort is a hotel in Huzhou, China. It has an interesting shape—it's shaped like a horseshoe. The

hotel has nicknames like "horseshoe hotel" and "donut hotel." It was designed by an architect named Ma Yansong . . .

Green Museum

ABOUT THE VIDEO

The California Academy of Sciences has a unique museum.

BEFORE YOU WATCH

Talk with a partner. Check (✓) the things you think you can find in the green museum in California.

- | | | |
|--|--|--|
| <input type="checkbox"/> a rain forest | <input type="checkbox"/> an aquarium | <input type="checkbox"/> a garden |
| <input type="checkbox"/> a coral reef | <input type="checkbox"/> a research center | <input type="checkbox"/> a flower market |

WHILE YOU WATCH

A Check your answers to the Before You Watch question.

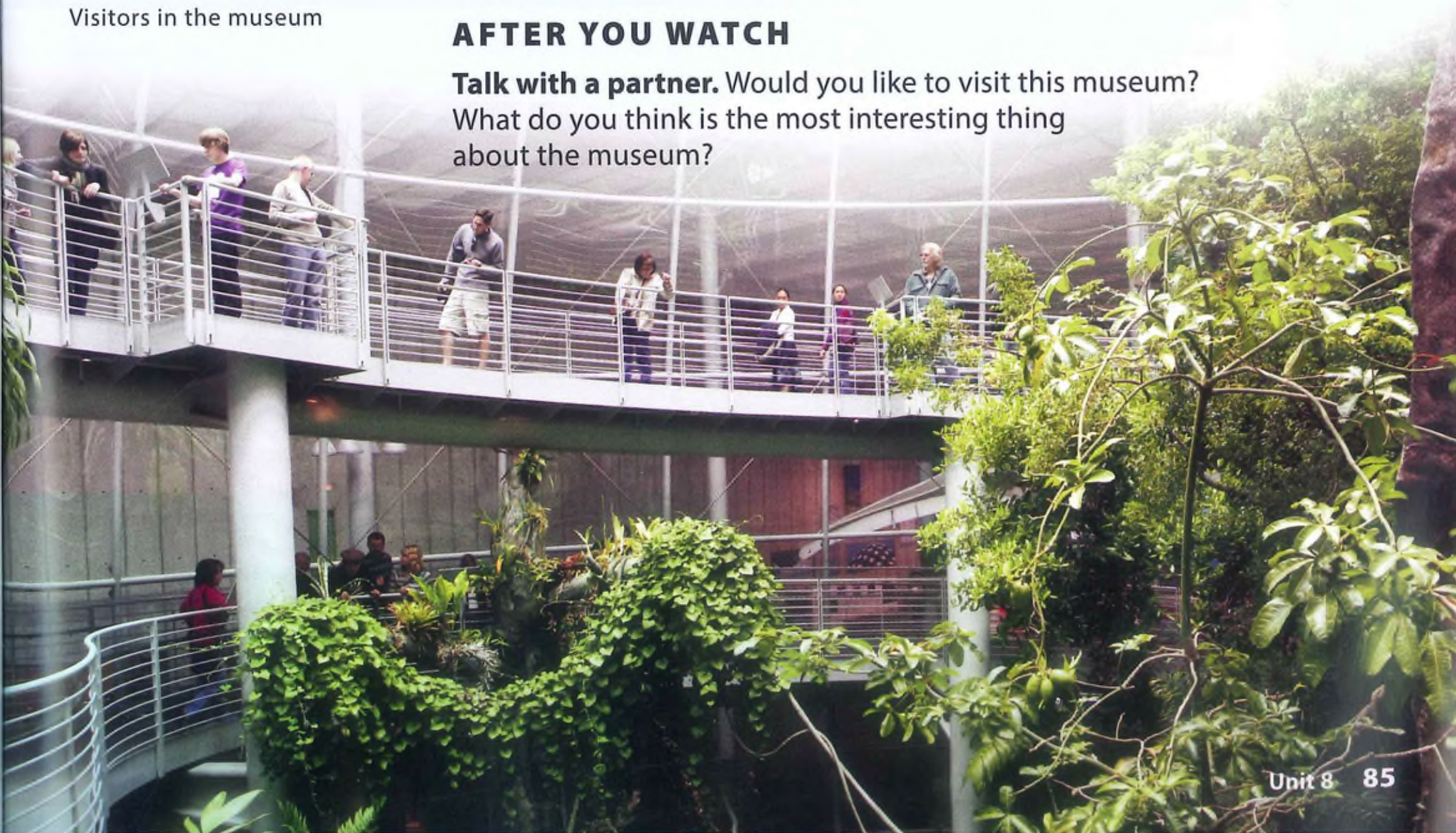
B Watch the video again. Circle the correct answers.

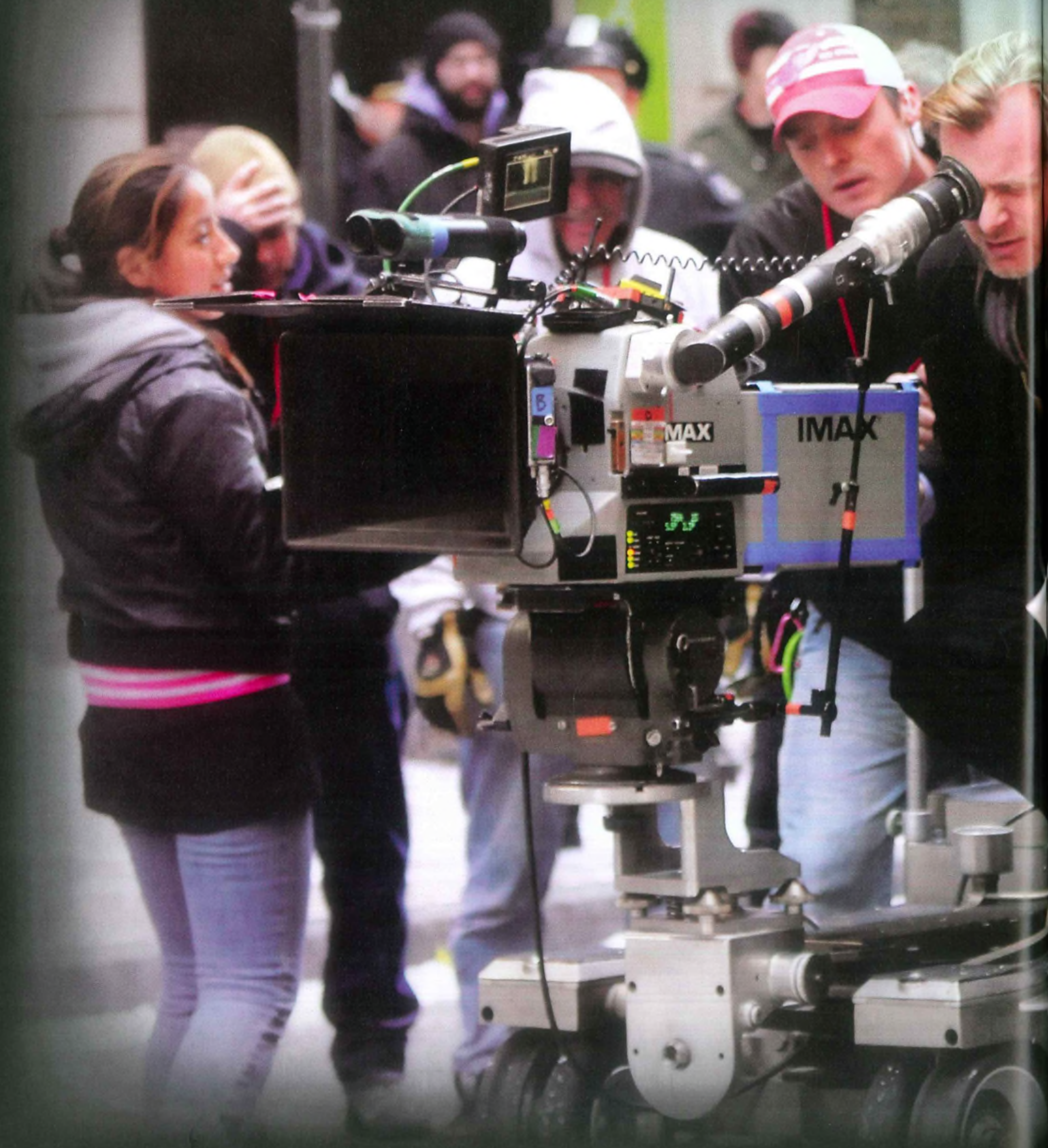
1. The California Academy of Sciences has the (**biggest** / **oldest**) green museum in the world.
2. The climate in the dome is (**cool and dry** / **hot and humid**).
3. The water in the aquarium comes from (**a river** / **the ocean**).
4. The aquarium has the (**deepest** / **widest**) tank for a coral reef in the world.


Visitors in the museum

AFTER YOU WATCH

Talk with a partner. Would you like to visit this museum? What do you think is the most interesting thing about the museum?







HE'S A GREAT **DIRECTOR,** ISN'T HE?

Preview

A Label the words below as positive (P) or negative (N).

___ overrated


___ brilliant

___ unrealistic

___ dull

___ gorgeous

___ superb

B  3-01 **Listen.** Complete the sentences with the words in **A**.

1. Rachel thinks the special effects in *Interstellar* are amazing, but finds the story _____.
2. Keith says the costumes in *Marie Antoinette* are _____.
3. Sun thinks *Frozen* is _____, but likes the soundtrack.
4. Paul thinks the movie *The Grand Budapest Hotel* has an original story with _____ acting.
5. Natalia says the makeup in *Dawn of the Dead* is _____.

C **Talk with a partner.** Talk about a recent movie you have seen. Share what you liked and didn't like about it.

I recently saw the new *Avengers* movie. The story was pretty exciting!

How were the special effects?

Director Christopher Nolan filming *The Dark Knight Rises* in New York City

Language Focus

A 3-02 **Listen and read.** Then repeat the conversation and replace the words in **blue**.

REAL ENGLISH Same here.

B **Practice with a partner.** Replace any words to make your own conversation.

1 I've **waited so long to see** this movie. Same here. And tonight's the last night, isn't it?
been dying to see
been waiting to watch

2 I really love the actors. And I've heard the **costumes are gorgeous**.
story is very clever
special effects were stunning

3 Everyone says the opening scene is **spectacular**. Hurry! I don't want to miss it.
brilliant
incredible

4 Hey, what's this? Oh, no! **We must be** in the wrong theater! **I think we're**
It seems we're

3-03

USING TAG QUESTIONS

Benedict Cumberbatch **is** such a great actor, **isn't he?**

There **are** four *Hunger Games* movies, **aren't there?**

Maleficent **was** brilliant, **wasn't it?**

The soundtrack **doesn't** include any original songs, **does it?**

Tobey Maguire **starred** in the *Spider-Man* movies, **didn't he?**

You **haven't** seen the new *Star Wars* movie, **have you?**

James Cameron **will** make more *Avatar* movies, **won't he?**

You **can't** see that movie until you're 18, **can you?**

Yes, he is.

Yes, there are.

Yes, it was.

Actually, it does.

Yes, he did.

No, I haven't.

Yes, he will.

No, I can't.

C Complete the tag questions. Then ask and answer the questions with a partner.

1. 3-D always makes a movie more exciting, doesn't it?
2. You're a fan of Reese Witherspoon, _____?
3. You haven't read any of the *Divergent* books, _____?
4. Most romantic comedies are really predictable, _____?
5. You don't like action movies, _____?
6. You've seen all the *Star Trek* movies, _____?

D 3-04 Complete the conversation. Then listen and check your answers.

Sam: Do you like the actress Jennifer Lawrence?

Kylie: She was in the *X-Men* movies, (1) _____?

Sam: Yes, (2) _____. And the *Hunger Games* movies.

Kylie: Oh, right. Those made a lot of money, didn't they?

Sam: Yeah, (3) _____. The movies were really successful.

Kylie: By the way, I'm taking my nephew out for a movie tomorrow. Any suggestions?

Sam: He's still in elementary school, (4) _____?

Kylie: No, (5) _____. He's in middle school now.

Sam: How about an animated movie? He hasn't seen *Big Hero 6* yet, (6) _____?

Kylie: I don't think so. Maybe we'll watch that.

E Work in a group. Talk about the topics below. Ask follow-up questions.

favorite actors

action movies

pop music

science fiction movies

favorite books

favorite movie characters

You like science fiction movies, don't you?

Of course!

Have you seen *Guardians of the Galaxy*?

The Real World

Movie Flops

Moviemaking is a risky business. Even a simple movie can cost millions of dollars to make. Actor salaries and special effects all add to a movie's cost. Money is also needed for promotion and advertising. But sometimes, movies don't make their money back.



A 3-05 **Listen.** Based on the speaker's definition, which of the American movies below are "flops"? Circle the movies.

| MOVIE | COST (MILLION) | U.S. TICKET SALES | INTERNATIONAL TICKET SALES |
|------------------------|----------------|-------------------|----------------------------|
| <i>Pacific Rim</i> | \$190 | \$101 | \$309 |
| <i>R.I.P.D.</i> | \$130 | \$34 | \$45 |
| <i>Despicable Me 2</i> | \$76 | \$368 | \$606 |
| <i>47 Ronin</i> | \$175 | \$38 | \$113 |

B 3-06 **Listen.** Check (✓) the claims that the speaker makes.

1. One reason a movie can flop is because it gets terrible reviews. ☐
2. Big-name actors and actresses don't always help make a movie successful. ☐
3. Movie studios make sequels and remakes because they aren't creative. ☐
4. Hollywood is very careful when it selects which movies to make. ☐

Discussion. Do you know any movie that didn't do well? Do you think it was a flop?

Pronunciation

Intonation in tag questions

A 3-07 Listen and repeat.

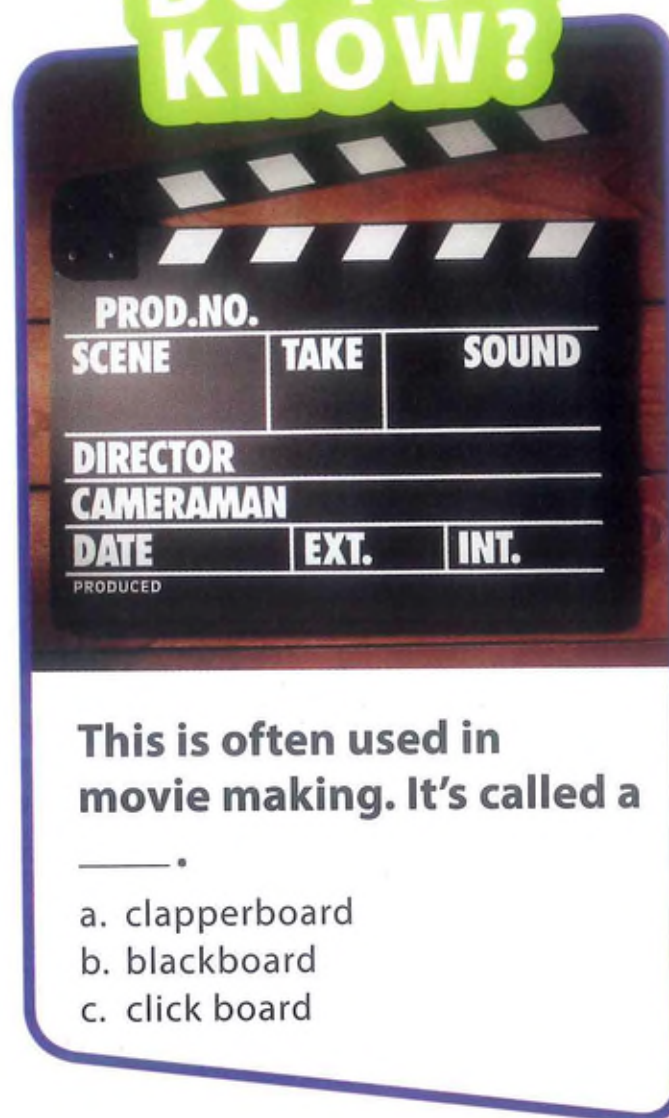
1. The *Harry Potter* movies made a lot of money, didn't they?
(asking for agreement)
2. You haven't seen all the *Harry Potter* movies, have you?
(asking for information)

B 3-08 Listen. Are the speakers asking for agreement (A) or information (I)? Write the letters.

1. That film festival was awesome, wasn't it? _____
2. *Planet of the Apes* has been remade twice, hasn't it? _____
3. You're a big anime fan, aren't you? _____
4. *The Hobbit* trilogy won a lot of awards, didn't it? _____
5. You don't like watching movies in 3-D, do you? _____
6. Movie tickets are so expensive nowadays, aren't they? _____

C Work with a partner. Take turns to read the sentences in B.

DO YOU KNOW?



Communication

Play a guessing game. Work with a partner. Think of a movie, actor/actress, and a TV show. Then write clues for each category below. Read your clues to another pair and get them to guess the answers.

| Movie | Actor/Actress | TV Show |
|-------|---------------|---------|
| | | |

This movie came out in 2015. It's part of a movie franchise. It stars Arnold Schwarzenegger.

Oh, I know! It's *Terminator Genisys*, isn't it?

That's right!





Reading

- A Predict.** What question do you think the article answers?
- a. Are horror movies less scary than they used to be?
 - b. Why do people go to horror movies?
 - c. What horror movies are most popular?
- B Scan the article.** Circle the three components of horror movies.
- C Talk with a partner.** Do you like horror movies? Why do you think they are so popular?

OUR ATTRACTION to FRIGHT

3-09

Do you enjoy watching horror movies? Many people do, and scientists are interested in finding out why.

5 Millions of years of human evolution has made us afraid of certain things. For example, we are afraid of the dark for good reason—sometimes, wild animals or other dangers hid in the dark. In a way, fear has helped humans avoid danger and helped us survive.

10 Scientists have identified an area of the brain that is linked to fear—the amygdala. This area of the brain produces stronger responses when people view images of animals—as compared to images of people, places, or things. This is strange because animals are not very likely to cause us harm in today’s modern world. But perhaps it’s the reason why many scary movies have images of animal-like monsters. However, brain scan research also shows that horror movies don’t actually create fear responses in the amygdala. This makes researchers curious to know the kind of emotions people are really feeling when
15 they watch a horror movie.

It’s important to understand what creates horror in movies. Psychologist Glenn D. Walters has identified three factors. One is tension, created through mystery, terror, shock, and mood. The second is relevance, which can be fears we all have, such as fear of the unknown, or death. The third factor is unrealism. In one
20 research study, students were shown horrible images from documentary movies. Most couldn’t watch them. But these same students paid money to see even worse images in horror movies. Why? They knew the movie was not real. This may explain why documentary-style movies that are presented as “real”—such as *Paranormal Activity*—are seen as particularly frightening.

25 The attraction to fear is intriguing on a psychological level. Many theories have tried to explain its appeal. One suggests that young people like horror movies because adults frown upon them. For adults, the appeal may be a sort of dark curiosity, similar to what happens when we stop to look at a car accident. Another theory says that we enjoy horror because of the feeling of confidence
30 we experience afterward.

Although many theories have been suggested, we still don’t fully understand our fascination with horror movies. But whatever reasons people have for watching horror, one thing is clear—this movie genre is not going anywhere.

Comprehension

A Answer the questions about *Our Attraction to Fright*.

- Purpose** The purpose of the second paragraph is to explain _____.
 - what horror movies are
 - why we love horror movies
 - why we fear some things
- Inference** Horror movies often make use of music to add to the _____.
 - unrealism
 - tension
 - relevance
- Detail** It's easier for people to watch scary images in movies than documentaries because they know that the images _____.
 - aren't real
 - aren't of people
 - aren't as scary
- Vocabulary** In line 27, "frown upon" means _____.
 - to be unafraid of
 - to show disapproval of
 - to refuse to see
- Cohesion** The sentence "It makes us feel better about ourselves because we made it through the horror safely" would go best at the end of the ____ paragraph.
 - third
 - fourth
 - fifth

IDIOM

To "have your ____ in your mouth" means to be scared.

- foot
- heart
- fingers

B Read the sentences below. Mark them as **T** for True, **F** for False, or **NG** for Not Given.

- There are evolutionary reasons why we fear certain things. _____
- The amygdala responds more strongly to objects than to landmarks. NG
- Scary movies activate fear responses in the amygdala. _____
- Students spend a lot of money watching horror movies. _____
- Documentary-style horror movies are especially scary because they feel real. _____
- People in their 20s watch more horror movies than anyone else. _____

C CRITICAL THINKING Talk with a partner. Do you think watching horror movies is harmful in any way?

Writing

Write a movie review.

Describe the movie and share what you liked or didn't like about it.

MOVIE REVIEW FORUM

Heartwarming Story ★★★★★

I watched *Chappie* recently. The movie is about a robot who can think and feel like a normal human. The movie characters were very interesting and funny. The story was brilliant. It made me think about issues in our society. I would definitely recommend this to everyone because . . .

Walk of Fame

ABOUT THE VIDEO

The Hollywood Walk of Fame is a famous sidewalk in California, U.S.A.

BEFORE YOU WATCH

What do you know about the Hollywood Walk of Fame? Circle **T** for True or **F** for False.

- | | | |
|---|----------|----------|
| 1. Most of the people on the Walk of Fame are movie stars. | T | F |
| 2. There are some fictional characters on the Walk of Fame. | T | F |
| 3. The first stars are over 100 years old. | T | F |

WHILE YOU WATCH

A Check your answers to the Before You Watch questions.

B Watch the video again. Circle the correct answers.

1. (**One** / **Neither**) of the speakers has been to Hollywood.
2. In the video, George Clooney is making his (**handprints** / **footprints**) in the concrete.
3. The speakers (**liked** / **didn't like**) the last *Harry Potter* movie.
4. The female speaker (**is** / **isn't**) interested in celebrities.

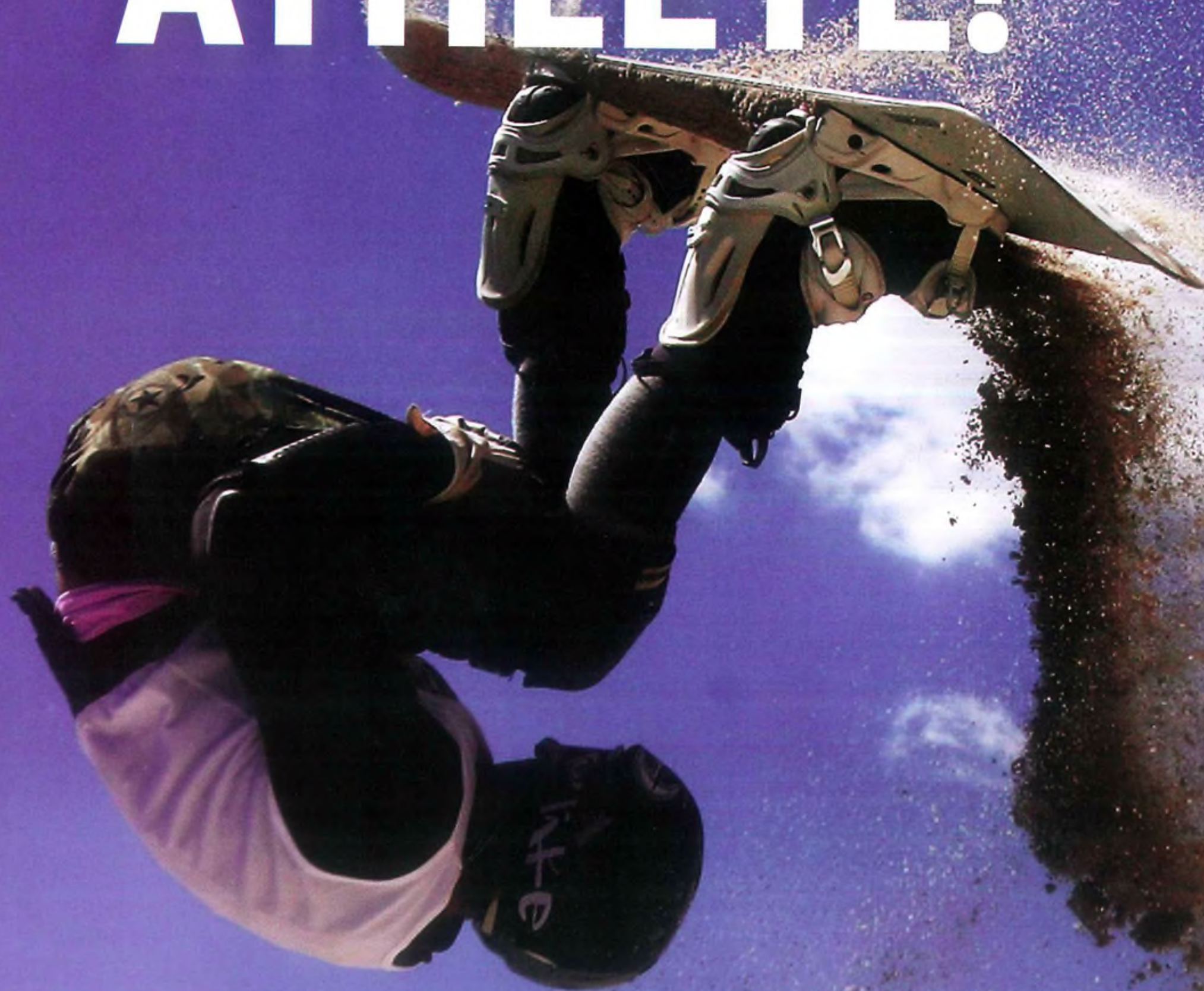
AFTER YOU WATCH

Talk with a partner. Are you interested in celebrities? Is there a place in your country that's similar to the Walk of Fame?

The Hollywood Walk of Fame



I WISH I COULD BE AN **ATHLETE!**




A competitor at the
Sandboarding World
Championship in Germany

Preview

A  3-10 **Listen to the conversation.** Number the wishes (1-5).

____ play the piano well ____ cure diseases ____ be a talented architect
____ travel back in time ____ be an athlete

B  3-10 **Listen again.** What would the people do if their wishes came true? Match.

- | | | |
|----------------|-----------------------|---|
| 1. John | <input type="radio"/> | <input type="radio"/> a. would design interesting buildings |
| 2. Christopher | <input type="radio"/> | <input type="radio"/> b. would like to meet Einstein |
| 3. Mariko | <input type="radio"/> | <input type="radio"/> c. would find a cure for cancer |
| 4. Luke | <input type="radio"/> | <input type="radio"/> d. would set an Olympic record |
| 5. Sara | <input type="radio"/> | <input type="radio"/> e. would perform in concerts around the world |

C **Talk with a partner.** Look at the wishes in **A**. Which wish would you choose? Why?

I wish I could travel back in time. That way I could find the answers to ancient mysteries!

Which period would you go back to?

Language Focus

A 3-11 **Listen and read.** Then repeat the conversation and replace the words in **blue**.

REAL ENGLISH

Do you mean ...?

B **Practice with a partner.** Replace any words to make your own conversation.

1 Do you ever wish you had a superpower?

Do you mean like being able to **fly**?

2 Yeah, what do you wish you could do?

I wish I could **breathe underwater**.

3 What power would you **want**?

I'd want to control people's minds.

4 Why?

If I could do that, I could make **all my teachers give me A's!**

see through walls
travel back in time

make myself invisible
predict the future

like wish for

everyone do what I say
people do my chores

3-12

TALKING ABOUT WISHES AND IMAGINARY SITUATIONS

I **wish** I **were** rich and famous.

I **wish** I **didn't have** so much homework.

I **wish** I **could speak** every language well.

If you **were** rich, **would** you **use** the money to travel?

Yes, I **would**. I'd **use** it to go to Antarctica.
No, I **wouldn't**. I'd **use** it to help people.

If you **could have** any superpower, what power **would** you **want** to have?

I'd **want** to be able to fly.

Where **would** you **go if** you **could go** anywhere in the world?

I'd **go** to Australia and New Zealand.

C 3-13 **Complete the conversations.** Use the correct forms of the words in parentheses. Then listen and check your answers.

1. Kay: What would you do if you (1) _____ (**be**) rich?
Hugh: I (2) _____ (**buy**) a house for my parents.
2. Alfred: If you (3) _____ (**can have**) any superpower, what superpower (4) _____ you _____ (**want**)?
Sandy: I think I'd want to be able to read people's minds.
3. Erin: If you (5) _____ (**can live**) forever, would you be happy?
Roger: No way. I (6) _____ (**not want**) that.
4. Trevor: If you (7) _____ (**not have to**) go to school, how different would your life be?
Nancy: It (8) _____ (**not be**) different at all. I'd still go to school.

D **Complete the sentences.** Use the correct forms of the phrases in the box.

| | | |
|---------------|------------------------|--------------------------------|
| be taller | be more hours in a day | can go back in time |
| can sing well | have fewer words | put in more effort |

1. I wish I could go back in time. It would be interesting to meet Abraham Lincoln.
2. I'm too short to join the basketball team. I wish I _____.
3. I never have enough time to see my friends. I wish there _____.
4. I wish English _____. There are too many to remember!
5. I wish I _____. It would be fun to enter a talent competition.
6. Climate change is a real problem. I wish people _____ to find a solution.

E **Work in a group.** Imagine you had three wishes. What are they? Share your wishes with your group members.

I wish I could talk to animals.

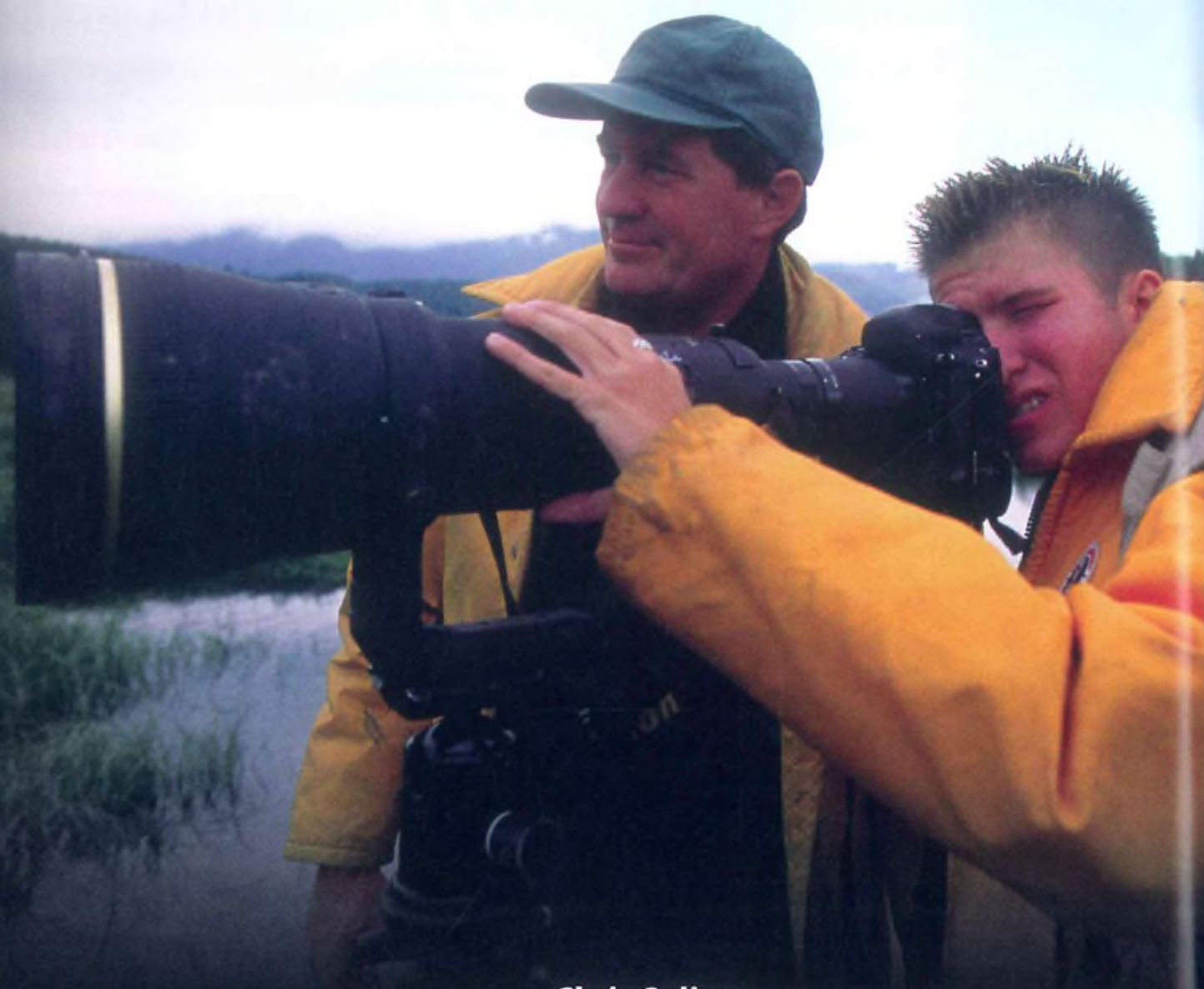
Why?

I'd like to know what they think of us.



Power of a Wish

The Make-A-Wish Foundation is an organization that grants wishes to sick children aged 3 to 18. It has been granting wishes for more than 30 years.



Chris Saling
with Joel Sartore

A 3-14 **Listen.** Circle the correct answers.

In 1980, a boy named Chris Greicius was dying from 1. (**cancer** / a heart disease). His wish was to be a 2. (**firefighter** / police officer). A few officers from Arizona, U.S.A., heard about his wish, and they wanted to help. Within a few days, they 3. (**made his wish come true** / raised a sum of money). After this experience, two of the officers decided that they wanted to help children 4. (**from poor families** / with life-threatening illnesses). So they created the Make-A-Wish Foundation. Today, the organization has granted more than 300,000 wishes to children 5. (**around the world** / in the United States).

B 3-15 **Listen.** Circle **T** for True or **F** for False.

- | | | |
|--|----------|----------|
| 1. Saling's wish was to go on a photo shoot with Joel Sartore. | T | F |
| 2. Saling took photos of wild animals. | T | F |
| 3. National Geographic held an exhibition to display Saling's photos. | T | F |
| 4. Saling started to raise money to support medical research on his condition. | T | F |

CRITICAL THINKING

If you had some money to give to charity, whom would you give it to?
Do you know any other organizations that help children?

Pronunciation

Contractions: 'll and 'd

A  3-16 Listen and repeat.

1. I'll buy a new car.
2. I'd buy a new car.

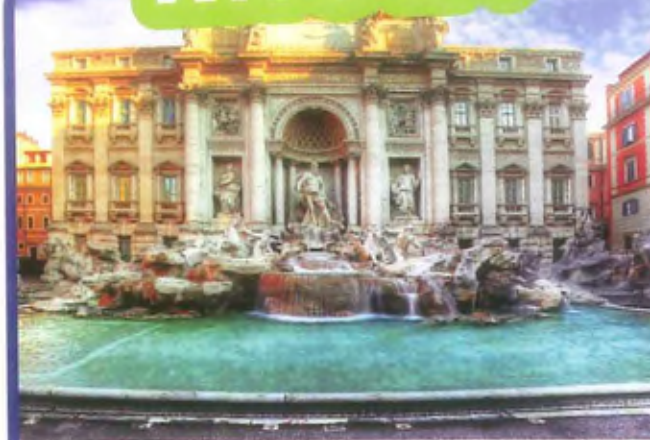
B  3-17 Listen. Circle the sounds you hear.

1. 'll 'd
2. 'll 'd
3. 'll 'd
4. 'll 'd
5. 'll 'd
6. 'll 'd

C Work with a partner. Take turns to read the sentences below.

1. If I could visit any city for a day, I'd go to Barcelona.
2. I'll practice the piano after school today.
3. If the weather is nice this weekend, I'll go for a picnic at the beach.
4. If I could meet anyone in the world, I'd want to meet Beyoncé.

DO YOU KNOW?



People often throw _____ into a fountain to make a wish.

- a. flowers
- b. pebbles
- c. coins

Communication

Play a game. Work with a partner. Read the questions below. Guess what your partner's answers will be. Then check your guesses and ask follow-up questions.

| Questions | My guesses | My partner's answers |
|--|------------|----------------------|
| If you could be the size of a building or an insect, which would you be? | | |
| Which would you choose to spend one day as—a cat or a bird? | | |
| If you could be very rich or very good-looking, which would you choose? | | |
| If you had to give up pizza or burgers, which would you never eat again? | | |
| If you could bend metal or see through walls, which would you pick? | | |
| If you had to lose your hearing or your sense of taste, which would it be? | | |
| If you could be a language or musical genius, which would you be? | | |

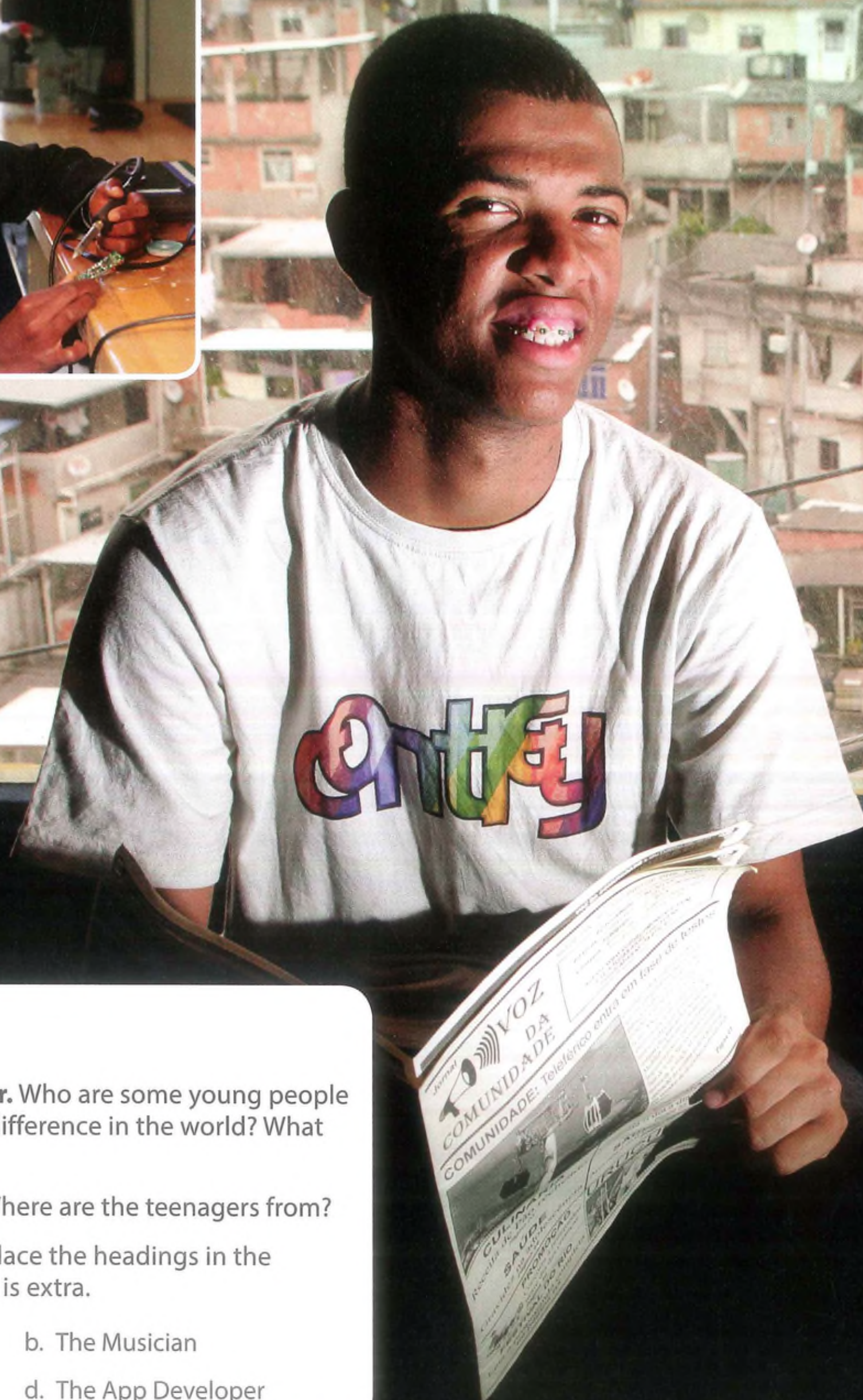
If you could be the size of a building or an insect, which would you be?

I'd be the size of an insect.

Oh, I didn't guess that correctly. Why would you want to be so small?



Kelvin Doe



Rene Silva

Reading

- A** **Talk with a partner.** Who are some young people who have made a difference in the world? What did they do?
- B** **Scan the article.** Where are the teenagers from?
- C** **Skim the article.** Place the headings in the correct places. One is extra.
- | | |
|-------------------|----------------------|
| a. The Journalist | b. The Musician |
| c. The Inventor | d. The App Developer |



MAKING A DIFFERENCE

3-18

____ Kelvin Doe was born during Sierra Leone's civil war. He was six when the war ended. Today, he represents how this west African country is moving forward. A short film about him has already gathered a few million views on YouTube.

Kelvin is a self-taught engineer. At age 11, he began digging through trash to find
5 electronic parts to create things. Since then, he has built a battery, a generator to provide electricity in his neighborhood, and a radio station from recycled materials.

At age 15, he won a competition that took him to the United States. There he spoke about his inventions to students at the Massachusetts Institute of Technology (MIT). He also appeared on CNN and NBC News, and was a speaker at TEDxTeen. He has
10 helped inspire and educate people through these events.

____ Zea Tongeman, a teenager from the United Kingdom, never thought of herself as a tech person. "I used to think technology was just fixing computers," Zea says. But one day she participated in a technology workshop at her school. A fashion designer came and showed the class how technology helps her create unique designs.

15 "This was really what got me excited about technology," Zea says, "because it showed me that you don't have to be sitting at a computer screen all day typing really fast. You can be creative with it."

She also found that technology can educate people. With a friend, she designed an app called Jazzy Recycling. It aims to get people to recycle by making the task into a
20 game. The app helps users find recycling locations and shows them what to recycle. They can then scan, share, and get rewards through the app.

____ Like many Brazilian teenagers, Rene Silva is interested in computer games, soccer, and music, but he also has another interest. He wants people to understand what the poor neighborhoods, or *favelas*, are really like. Many people see Rio de
25 Janeiro's *favelas* only as dangerous places—places to avoid. Rene has used social media to show a more positive side.

When Rene was 11, a teacher suggested he set up a neighborhood newspaper. He worked hard writing reports for the newspaper. At 17, he became famous for tweeting about a police raid. On his blog, he corrected mistakes made by TV reporters. Soon,
30 his followers increased from a few hundred to tens of thousands.

At age 19, he wrote his first book about the *favelas*. He hopes that it will help educate others about the people there. "Today," Rene says, "there is more recognition of the people who are trying to do good and change the reality of the place where they live."

Comprehension

A Answer the questions about *Making a Difference*.

- Cohesion** The sentence "Many young people in Sierra Leone now want to be like Kelvin" would go best at the end of the ____ paragraph.
a. first b. second c. third
- Detail** Zea changed her mind about technology when she saw how _____.
a. easy it was to use
b. creative she could be with it
c. an app could affect people
- Inference** The Jazzy Recycling app gets people to recycle by _____.
a. making the task fun
b. giving them cash
c. teaching them about the environment
- Detail** Rene is trying to educate people about _____.
a. life in *favelas*
b. news reporting in Brazil
c. using social media
- Vocabulary** In line 32, "recognition" means _____.
a. cooperation
b. reward
c. acknowledgment

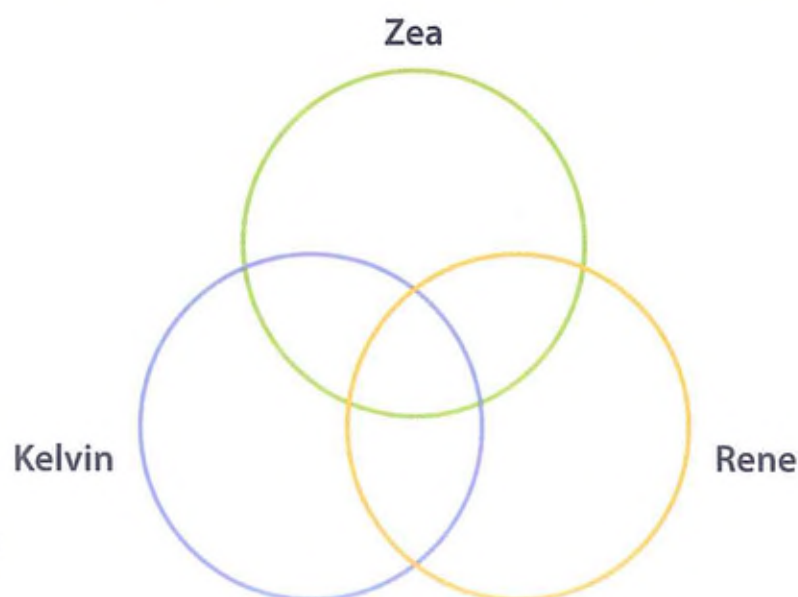
IDIOM

If something is "beyond your wildest dreams," it's _____ than you imagined.

- a. worse
- b. better

B Complete the Venn diagram. Write the letters of the descriptions in the correct places.

- a. wrote a book
- b. won a competition
- c. is involved in recycling
- d. wrote for a newspaper
- e. designs apps
- f. was inspired by a fashion designer
- g. is using his or her influence to educate people



C CRITICAL THINKING Talk with a partner. How can you make a difference in your community?

Writing

Write an essay. What three changes would you like to see in the world? What do you wish you could do to make these changes?

One of my wishes is to see every child being able to go to school. I feel that education is very important for learning about ourselves and the world. If I were in the government, I would make it possible for poor children to receive an education by . . .

RoboBees

ABOUT THE VIDEO

Robert Wood is a National Geographic Explorer. He is building unique robots to help people.

BEFORE YOU WATCH

What do you think the robot insects are like? Check (✓) the features.

- | | | |
|-------------------------------|--|--|
| <input type="checkbox"/> tiny | <input type="checkbox"/> cheap to make | <input type="checkbox"/> can lift heavy things |
| <input type="checkbox"/> soft | <input type="checkbox"/> can fly | <input type="checkbox"/> built from recycled materials |

WHILE YOU WATCH

A Check your answers to the Before You Watch question.

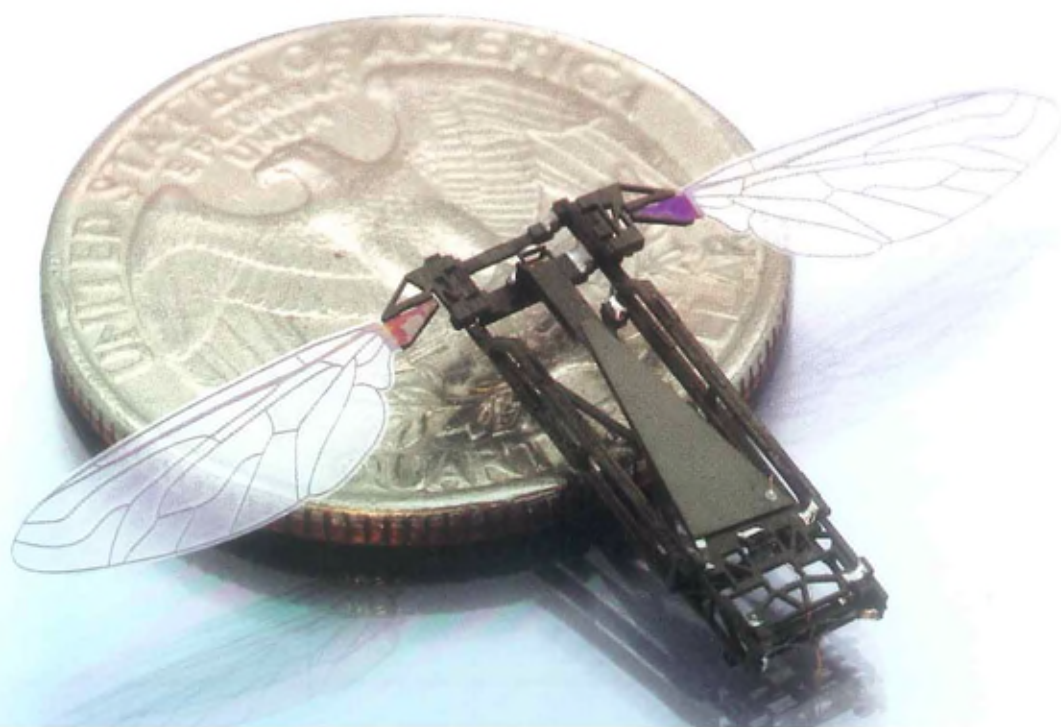
B Watch the video again. Complete the sentences.

- Wood hopes his robots will be useful in _____.
 - monitoring people's health
 - exploring space and oceans
- Wood's team gets ideas from _____.
 - nature
 - machines
- In the next _____ years, Wood believes his robots can help people do dangerous tasks.
 - 5
 - 20
- Wood is creating robots that _____ like bees.
 - work in groups like
 - are as intelligent as

AFTER YOU WATCH


Talk with a partner. If you could build a robot, what kind of robot would you want to build? Do you think robots are important to humans?

A robot created by Wood and his team



WHAT WOULD YOU DO?

Preview

A  3-19 **Listen.** What situations are the people facing? Circle the correct answers in the first column.

| SITUATION | FRIEND'S ADVICE |
|---|-----------------|
| 1. Susan saw someone (stealing / cheating). | |
| 2. Matt's neighbors refused to (turn down their music / clear their trash). | |
| 3. May (dirtied / damaged) something in a store. | |
| 4. Robert found a (handbag / wallet) on the sidewalk. | |

B  3-20 **Listen.** What is their friend's advice? Complete the second column in **A**.

C **Talk with a partner.** What would you do in each situation in **A**?

I'd say something to the classmate.

I probably wouldn't do anything.



What would you do if you saw
someone being pickpocketed?

Language Focus

A 3-21 **Listen and read.** Then repeat the conversation and replace the words in **blue**.

REAL ENGLISH What a relief!

B **Practice with a partner.** Replace any words to make your own conversation.

1 What's wrong, Nadine? I have a bit of a problem.
Is everything OK
Is something the matter

2 What is it? Maybe I can help. What would you do if you lost something that you borrowed from a friend?
What kind of problem?
You can tell me.

3 I'd apologize and tell the friend the truth. If you were that friend, would you be angry?
you'd be angry, wouldn't you
don't you think you'd be angry

4 Not at all! Everyone makes mistakes. What a relief! So... remember that video game I borrowed?
Of course not
Not in the least

3-22

LANGUAGE REVIEW

Describing actions that continue to the present

She's **been waiting** here for an hour.
They've **been playing** music since two o'clock.

Passive form

My neighbor **was taken** to the hospital.
Most crimes **are reported by** regular people.

Giving advice

You **should apologize** for saying that.
You **could ask** the teacher for some advice.

Describing probability

This bag **could/might** belong to a man.
That **can't/couldn't** be his car. His car isn't black.
He **could/might** have taken the wallet.
I **must** have left my homework at home.
She **couldn't** have left the book there. She was holding it just now.

Talking about imaginary situations

If I **saw** a crime, I'd **call** the police.
If I **had** enough money, I'd **buy** a new computer.

C 3-23 **Circle the correct answers.** Then listen and check.

1. Amy: If you had an extra \$1,000, what 1. (**would** / **must**) you do with it?
Louis: That's a lot of money. 2. (**I'd** / **I'll**) buy a new computer. 3. (**I was using** / **I've been using**) this one for five years.
2. Chris: I heard the answers to today's test 4. (**were being stolen** / **were stolen**). They 5. (**took** / **were taken**) off Mr. Lee's desk when he left to make a call.
Kelly: It 6. (**should** / **must**) be someone in our class. But who 7. (**would** / **should**) do something like that?
3. Peter: Do you know whose backpack this is?
Tania: It 8. (**should** / **might**) be Jennifer's. She has a blue bag.
Peter: No, it 9. (**can't be** / **might not have been**) hers. Look—the initials "T. R." are on it.

D **Complete the sentences.** Use your own ideas.

1. I don't see him anywhere. He must have gone home.
2. If you broke your friend's laptop I think you should _____.
3. You could _____ after school.
4. They couldn't have _____. They've been here all morning.
5. James must have been _____ when we were in class.

E **Work in a group.** Talk about what you would do in each situation below.

A teacher gave you an A+ by mistake.
You saw someone littering.
Someone spread a false rumor about you.
You accidentally broke a vase in a shop.
You were given a flower by a stranger.
Someone fell asleep against you on a bus.

What would you do if someone fell asleep against you on a bus?

I'd wake the person up.

What is Plagiarism?

Plagiarism is a form of cheating.

It refers to using another person's words or ideas as your own. If a student is caught plagiarizing, they can be kicked out of school. It's therefore important to understand what plagiarism is, and how to avoid it.

A  3-24 **Listen.** Read the situations below. Write **P** if it's an example of plagiarism.

1. Kevin copied his friend's essay and turned it in as his own. _____
2. Tara put quotation marks around a famous quote and listed the source. _____
3. Zac summarized an author's ideas for his paper and listed the source. _____
4. Pam copied and pasted a paragraph from an online encyclopedia for her report. _____
5. Hee-jin wrote the date of the invention of the light bulb without listing its source. _____

B  3-25 **Listen.** Complete the notes. Two words are extra.

cite summarize paraphrase multiple instructions list

1. Learn to _____.
2. Use _____ sources.
3. _____ your sources.
4. _____ the source if the origin of the idea is unclear.

CRITICAL THINKING

What would you do if you knew a student turned in someone else's essay as their own? Why?

Pronunciation

Final *t* or *d* with initial *y*

A  3-26 Listen and repeat.

1. I want you to be honest.
2. What would you do?

B  3-27 Listen. Complete the sentences.

1. How _____ explain the situation?
2. I don't _____ to be angry.
3. _____ like to play a game?
4. Why won't the teacher _____ leave early?
5. I _____ something in my art class.
6. I _____ the email yesterday.

C Work with a partner. Take turns to read the sentences in B.

DO YOU
KNOW?



People tend to use areas of the brain related to _____ when making moral decisions.

- a. emotion
- b. logic

Communication

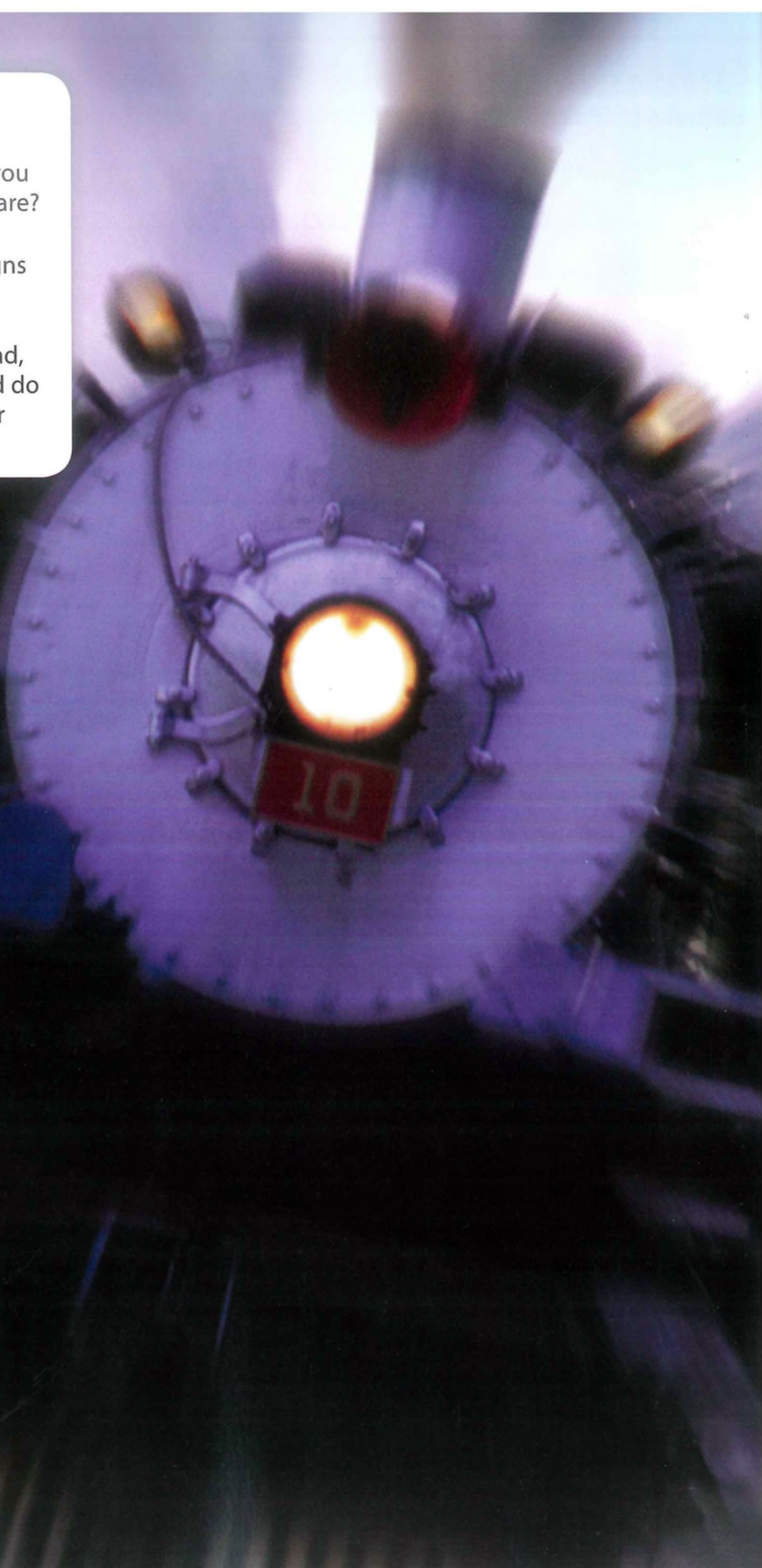
Debate an issue. A large area of forested land on the edge of town has been set aside for a new mall. Some people in the community are for the project, but some aren't. Work in groups of four. Two students are Team A, and two students are Team B. **Team A:** Turn to page 128. **Team B:** Turn to page 132.

We support this project because we think it will bring many benefits to the town. For example ...



Reading

- A** **Look at the title.** What do you think thought experiments are?
- B** **Scan the article.** Who designs thought experiments?
- C** **Read the article.** As you read, think about what you would do in each situation. Share your ideas with a partner.



THOUGHT EXPERIMENTS

3-28

Like scientists, philosophers use experiments to test their ideas. But unlike scientists, they don't need labs or expensive equipment. Instead, they use moral dilemmas to better understand the human mind. Moral dilemmas are situations where a difficult moral decision has to be made. There are no right or wrong answers to the questions raised by the following thought experiments.

The Runaway Train

You are walking along some train tracks. You look ahead and see five people—they've been tied up and left on the tracks. They're unable to move and are shouting for your help. An out-of-control train is speeding toward them. It's going to hit and kill them if you do nothing.

You see that the train tracks split. A person is crossing the other track, but he doesn't notice the train coming. Next to you is a lever. All you need to do is pull the lever to make the train go onto the other track. If you pull the lever, the train will move onto that track and kill the lone person, but you'll save the five people who are tied up.

15 The Prisoner's Dilemma

You and a friend robbed a bank, but both of you got caught. After being arrested and brought back to the police station, you are placed in two different rooms.

A police officer comes in and makes you the following offer: You can choose to remain silent or confess to the crime. If you confess but your friend does not, you can go free and your friend will go to prison for five years. If you remain silent but your friend confesses, your friend will go free and you'll go to prison for five years. If you both confess, you'll both go to prison for three years. If you both remain silent, the police will charge you with a lesser crime, so both of you will only go to prison for one year.

25 The Famous Pianist

You wake up and find yourself in a hospital bed, covered with tubes. These tubes connect you to a world-famous pianist. The pianist is dying, and only your blood type is suitable for saving him. He'll die if you remove the connection now. If you choose to remain connected for the next nine months, he'll definitely recover. Although you have to stay in bed for nine months, there'll be no danger to your health or life.

What would you do in each of these situations? Philosophers are very interested in studying the different responses people give. They want to find out how people think or react in various situations.

Comprehension

A Answer the questions about *Thought Experiments*.

1. **Main Idea** What is true about thought experiments?
 - a. They were first created by scientists.
 - b. They have a single correct answer.
 - c. They are used to test the human mind.
2. **Detail** In "The Runaway Train," if you want to let things happen naturally, you'd _____.
 - a. get help
 - b. pull the lever
 - c. do nothing
3. **Vocabulary** Which of the following has a different meaning from the word "lone" in line 14?
 - a. lonely
 - b. solitary
 - c. single
4. **Detail** In "The Prisoner's Dilemma," is it possible for you to avoid prison time?
 - a. Yes, if you confess.
 - b. Yes, if you remain silent.
 - c. No, it isn't possible.
5. **Inference** Thought experiments can be useful for understanding people's _____.
 - a. creativity
 - b. behavior
 - c. talents

IDIOM

If someone is "between a rock and a hard place," the person is in a situation with ____.

- a. unpleasant choices
- b. confusing choices
- c. too many choices

B Match. Join each experiment to the question it raises.

- | | | |
|-----------------------------|-----------------------|--|
| 1. "The Runaway Train" | <input type="radio"/> | <input type="radio"/> a. Should you make personal sacrifices to help someone live? |
| 2. "The Prisoner's Dilemma" | <input type="radio"/> | <input type="radio"/> b. Do you trust someone enough? |
| 3. "The Famous Pianist" | <input type="radio"/> | <input type="radio"/> c. Is killing someone the same as letting them die? |

C CRITICAL THINKING Talk with a partner. Would your responses to the situations depend on other factors not mentioned in the article? What kind of factors would change your decisions?

Writing

Write a persuasive essay. Your friend is very sick and asks for your help with an important assignment. If you help her, her grades will be higher than usual, which could be unfair to the class. What would you do?

I wouldn't help her. I'd advise her to speak to the teacher to get more time for the assignment. I think it's unfair for me to help her because...

Test of Character

ABOUT THE VIDEO




Two experiments test people's reactions when they see someone in need of help.

BEFORE YOU WATCH

Discuss. In one experiment, people see a thief stealing a woman's bag. What percentage of the people do you think try to help?

WHILE YOU WATCH

A Match each of the people below to their reactions.

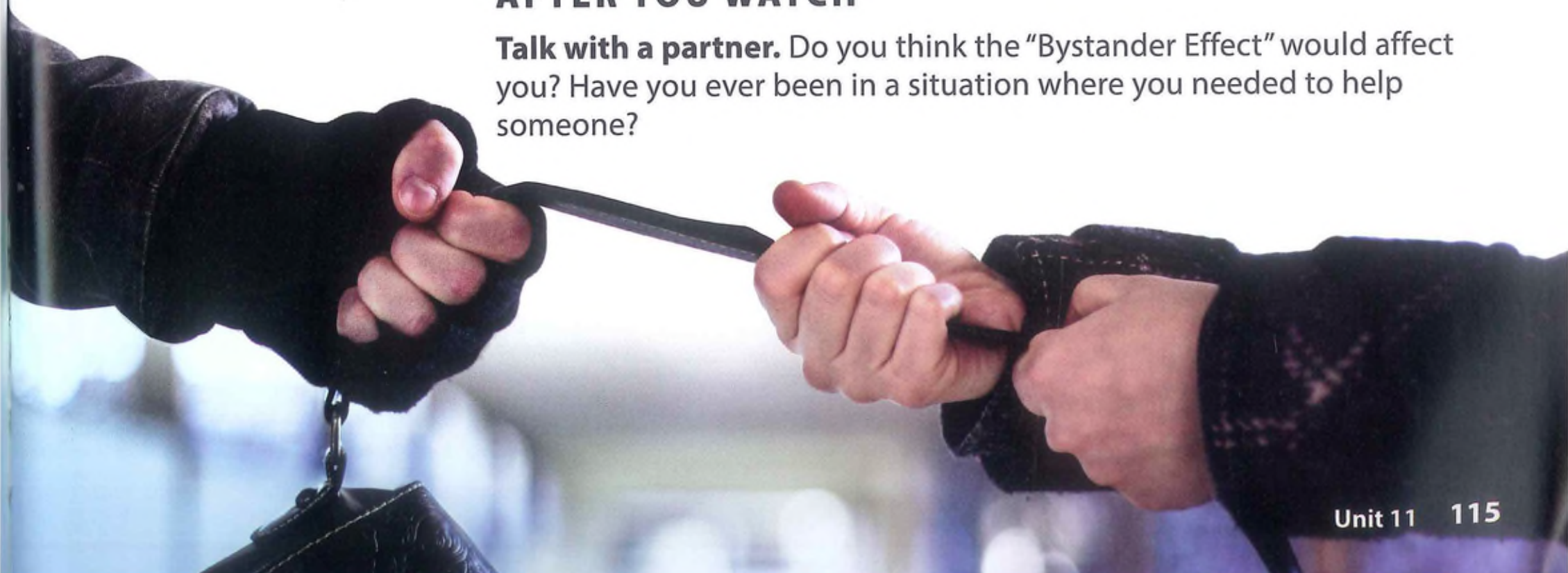
| | | | | | |
|----|---|----|--|----|--|
| 1. |  | 2. |  | 3. |  |
| | <input type="radio"/> | | <input type="radio"/> | | <input type="radio"/> |
| | <input type="radio"/> | | <input type="radio"/> | | <input type="radio"/> |
| | a. helps the woman | | b. watches but does nothing | | c. runs away |

B Watch the video again. Complete the summary of the second experiment.

The experiment took place in a restaurant with hidden _____. An _____ walked past customers and fell to the ground. The lone diner took _____ seconds to help the man. The group of diners took _____ seconds. This is an example of the "Bystander Effect." When people are in a group, they wait for _____ to take control.


AFTER YOU WATCH

Talk with a partner. Do you think the "Bystander Effect" would affect you? Have you ever been in a situation where you needed to help someone?



YOU SHOULD EAT MORE FRUIT!

Preview

A  3-29 **Listen.** What types of food does the speaker suggest we avoid (x), reduce (↓), or eat a lot of (↑)?

| | | | | | |
|-----------------------|-------|----------------|-------|----------|-------|
| vegetables and fruits | _____ | whole grains | _____ | red meat | _____ |
| processed food | _____ | salt and sugar | _____ | coffee | _____ |

B  3-29 **Listen again.** Circle **T** for True or **F** for False.

- | | | |
|---|----------|----------|
| 1. Whole grains are healthy because the body breaks them down faster. | T | F |
| 2. Eating too much red meat can lead to heart disease. | T | F |
| 3. You should avoid eating foods containing fats. | T | F |

C **Talk with a partner.** What are some healthy foods you like?

I like eating carrots. They're sweet.

I love yogurt. I heard that eating it after exercising can help your body recover faster.



An outdoor market in
Otavalo, Ecuador

Language Focus

A 3-30 **Listen and read.** Then repeat the conversation and replace the words in **blue**.

REAL ENGLISH

Any ideas?

B **Practice with a partner.** Replace any words to make your own conversation.

1 I have **such a busy schedule**. I'm so stressed out! You should try to relax.

2 How? Any ideas? Well, **exercising** is a great way to relax.

3 And you should think about reducing the amount of **tea** you drink. I know. I drink a lot of **tea**, don't I?

4 What's your advice, Maya? If Maya were awake, she'd tell you **to get plenty of sleep**!

too much to do
too many things to do

breathing deeply
stretching

soda
coffee

to take a nap
that sleeping is the best way to relax

3-31

LANGUAGE REVIEW

Gerunds

Exercising is a great way to relax.

Drinking less soda can help you lose weight.

Listening to music can improve your mood.

Adding more information

My aunt, **who** studied medicine, always gives good health advice.

Greek yogurt, **which** has a lot of protein, is good for you.

Describing and comparing things

Meat is **cheaper** / **more expensive** than vegetables.

She's the **fittest** / **most athletic** person I know.

Vegetables are **(not) as sweet as** fruit.

I'm not going out today. I'm **too tired**.

This coffee is **(not) sweet enough**.

Tag questions

Nuts **are** good for you, **aren't they**?

I **drink** a lot of soda, **don't I**?

She **didn't say** anything, **did she**?

They **can't go** to the party, **can they**?

C 3-32 **Circle the correct answers.** Then listen and check.

Having a good night's rest feels great, 1. (**does** / **doesn't**) it? 2. (**To get** / **Getting**) the right amount of sleep is important for teens, 3. (**who** / **which**) need energy to play sports or do well on tests. But during the teenage years, there is a reset of the body's internal "clock." This tells a person to fall asleep later and wake up later. Many teens don't get enough sleep because they sleep late but get up early for school. School life is busy, and getting through a full day without enough rest isn't as 4. (**easy** / **easier**) as you think. So, if you're feeling 5. (**too tired** / **tired enough**) to give your best during the day, you're probably not getting the eight to nine hours of sleep experts say you need each night.

D Match. Join the phrases to make statements. Then talk with a partner. Do you agree or disagree with each statement?

- | | | |
|--|-----------------------|--|
| 1. Eating too much fatty food | <input type="radio"/> | <input type="radio"/> a. than a meat-based diet. |
| 2. A vegetarian diet is healthier | <input type="radio"/> | <input type="radio"/> b. is just as important as a healthy body. |
| 3. Exercising 30 minutes a day | <input type="radio"/> | <input type="radio"/> c. before and after a workout. |
| 4. It's important to stretch | <input type="radio"/> | <input type="radio"/> d. who is the best person to give advice. |
| 5. A healthy mind | <input type="radio"/> | <input type="radio"/> e. can make you sick. |
| 6. If you're unwell, talk to a doctor, | <input type="radio"/> | <input type="radio"/> f. is long enough to keep yourself fit. |

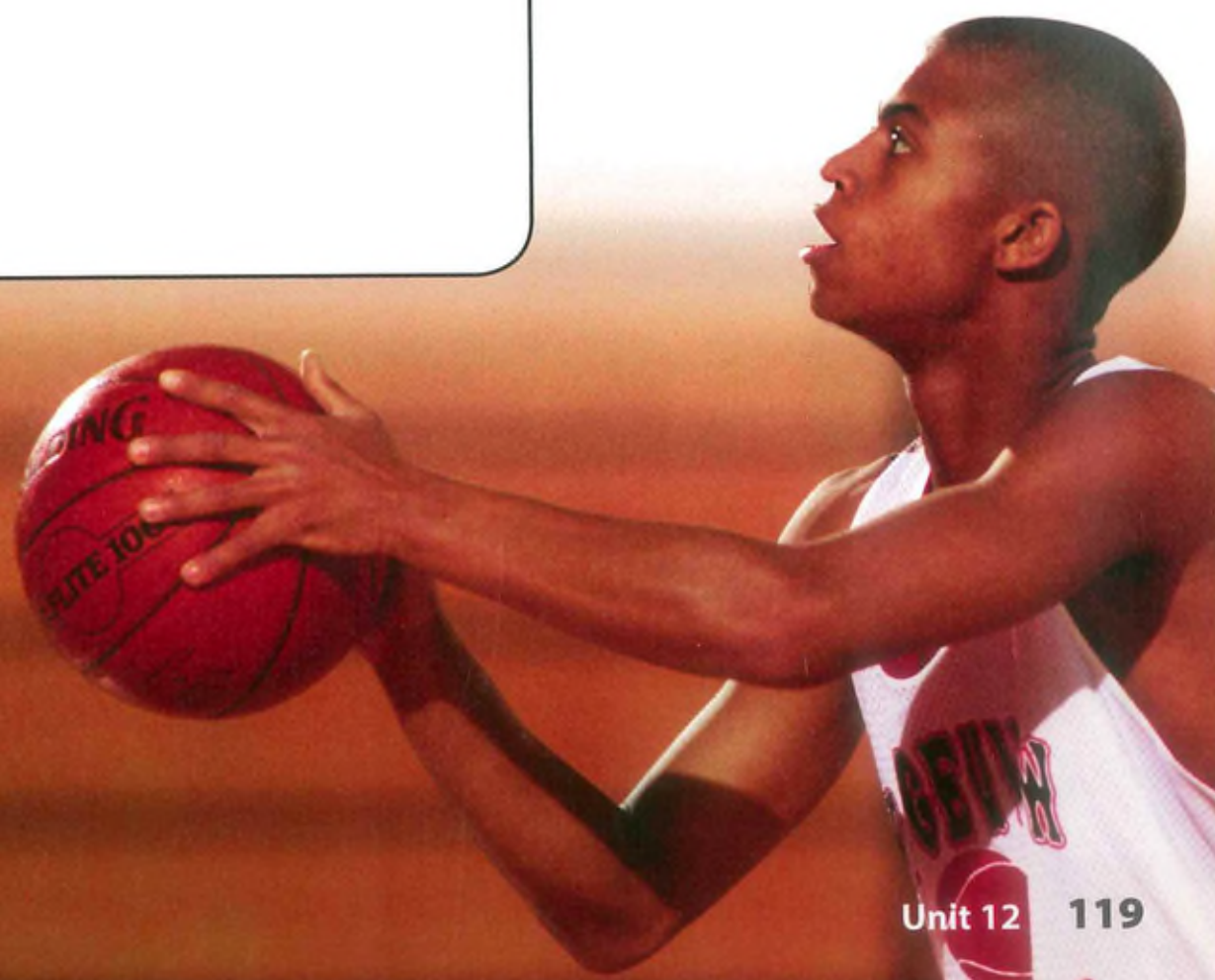
E Find someone for each of the descriptions below. Ask questions to find out the information you need.

| Find someone who . . . | Name |
|--|------|
| exercises more than you. plays three different sports. doesn't get enough sleep. has a healthy diet. takes good care of his or her teeth takes good care of his or her eyes | |

You like to play sports, don't you?

Yeah, I play basketball three times a week.

Oh, I jog once a week.



Superfoods

Superfoods have amazing health benefits. Some can help protect you from cancer. Some can lower your blood pressure, or help prevent diseases. Plus, they taste great! These so-called “superfoods” can easily be found in your local supermarket.

A  3-33 **Listen.** Check (✓) the health problems that each superfood may help protect against.

| | CANCER | HEART DISEASE | BRAIN DISEASES | HIGH BLOOD PRESSURE |
|-------------|--------|---------------|----------------|---------------------|
| walnuts | | | | |
| spinach | | | | |
| avocados | | | | |
| blueberries | | | | |
| salmon | | | | |

B  3-33 **Listen again.** Match each food to how the speaker suggests trying it.

- | | | |
|----------------|-----------------------|--|
| 1. walnuts | <input type="radio"/> | <input type="radio"/> a. add to eggs |
| 2. spinach | <input type="radio"/> | <input type="radio"/> b. eat frozen |
| 3. avocados | <input type="radio"/> | <input type="radio"/> c. try it raw |
| 4. blueberries | <input type="radio"/> | <input type="radio"/> d. mix with fruit |
| 5. salmon | <input type="radio"/> | <input type="radio"/> e. make a smoothie |

Discussion. Which of the superfoods above have you tried? What other kinds of foods are good for you?

Pronunciation

Pausing between thought groups

A 3-34 Listen and repeat.

1. A vegetarian diet / is healthier than / a meat-based diet.
2. If you're unwell, / talk to a doctor, / who is the best person / to give advice.

B 3-35 Mark the pauses in the sentences with a slash (/). Then listen and check your answers.

1. A healthy mind is just as important as a healthy body.
2. During the teenage years, there is a reset of the body's internal "clock."
3. These superfoods can be found in your local supermarket.
4. Superfoods may lower your blood pressure, help protect against diabetes, and reduce heart disease risk.
5. Getting the right amount of sleep is important for teens, who need to play sports or do well on tests.

C Work with a partner. Take turns to read the sentences in B.

DO YOU KNOW?



Which of these foods contains the most vitamin C?

- a. oranges
- b. bell peppers
- c. tomatoes

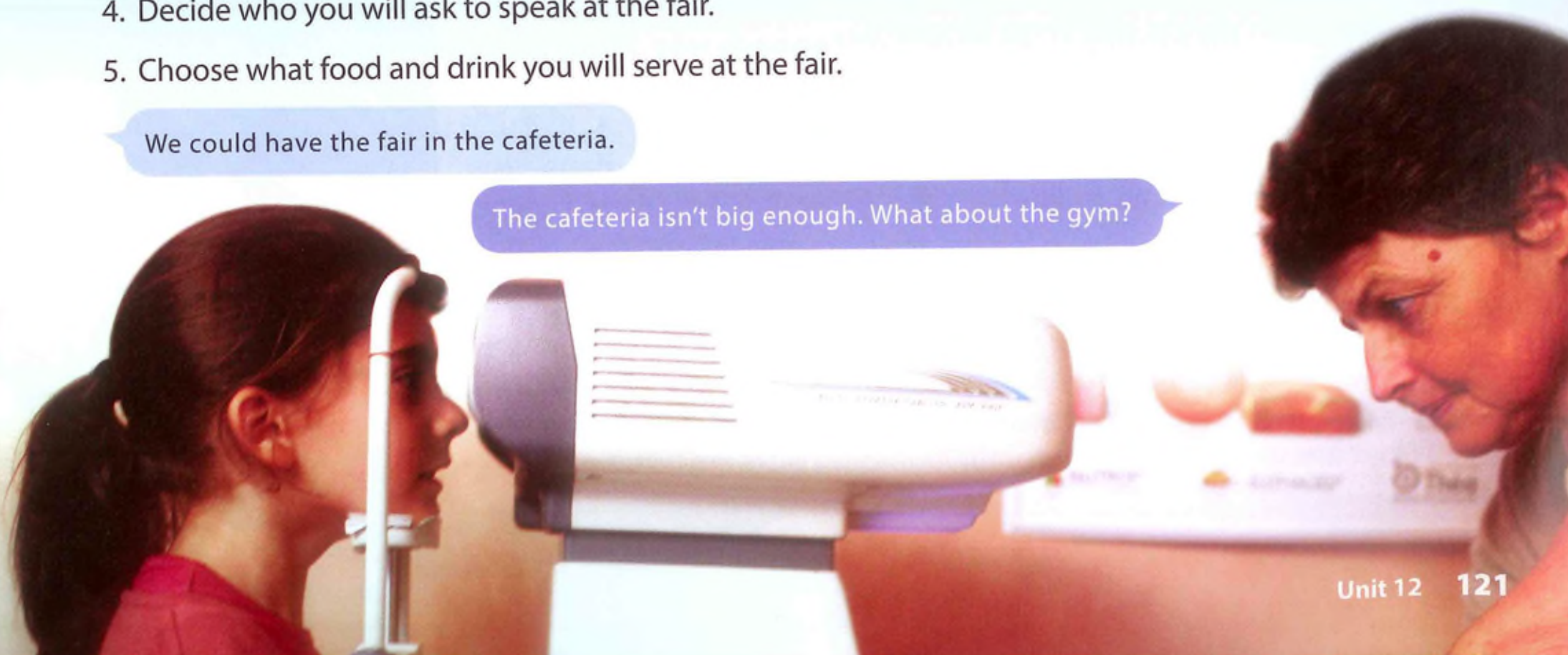
Communication

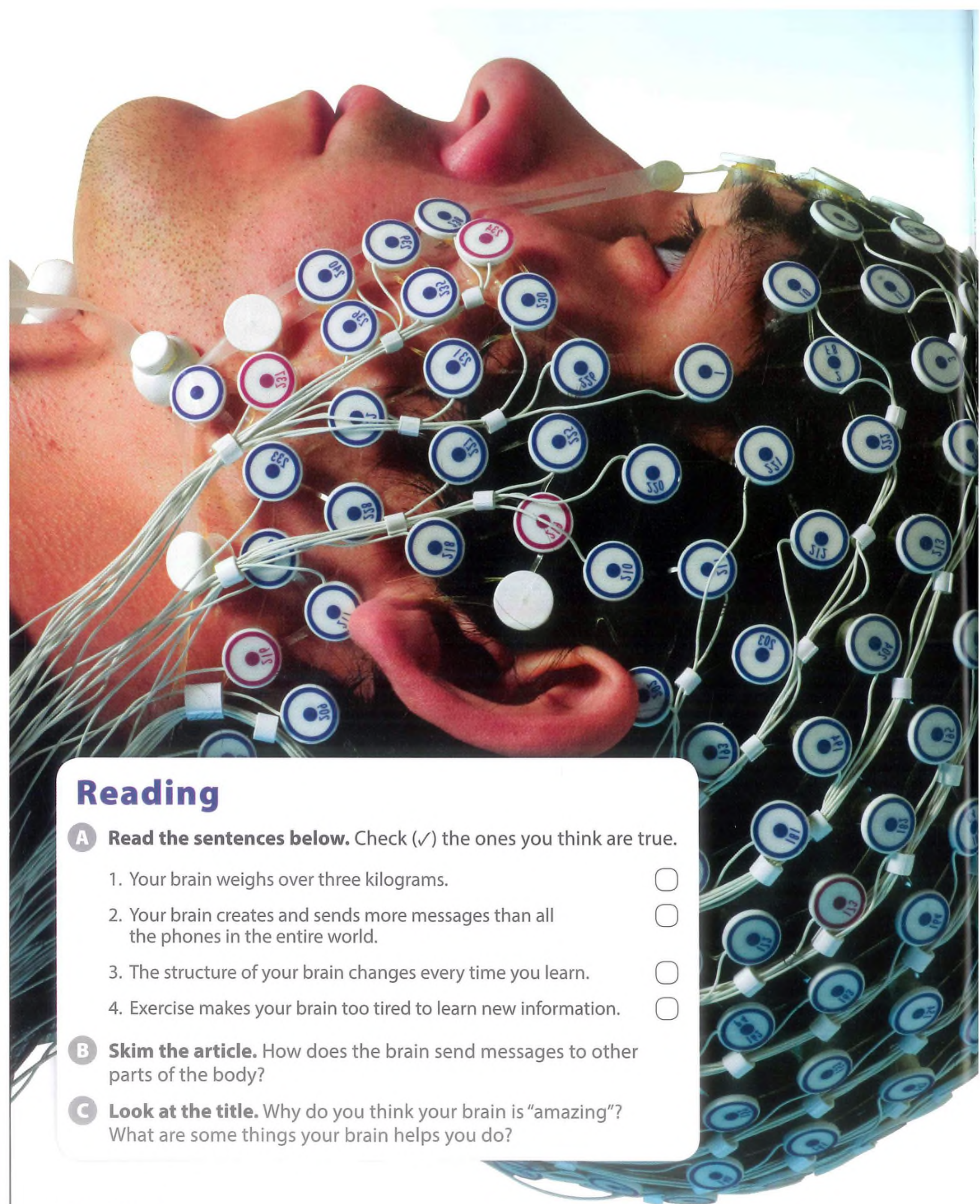
Plan a health fair. Work in a group. Prepare a proposal of your ideas.

1. Choose a place for the fair.
2. Brainstorm a list of health topics you want to cover.
3. Plan activities. Include activities for both students and parents.
4. Decide who you will ask to speak at the fair.
5. Choose what food and drink you will serve at the fair.

We could have the fair in the cafeteria.

The cafeteria isn't big enough. What about the gym?





Reading

A Read the sentences below. Check (✓) the ones you think are true.

1. Your brain weighs over three kilograms. ☐
2. Your brain creates and sends more messages than all the phones in the entire world. ☐
3. The structure of your brain changes every time you learn. ☐
4. Exercise makes your brain too tired to learn new information. ☐

B Skim the article. How does the brain send messages to other parts of the body?

C Look at the title. Why do you think your brain is “amazing”? What are some things your brain helps you do?

YOUR AMAZING BRAIN

3-36

You carry a 1.3-kilogram mass of fatty material in your head that controls everything your body does. It lets you think, learn, create, and feel emotions. What's this amazing machine? It's your brain—a structure so incredible that the famous scientist James Watson called it "the most complex thing we
5 have yet discovered in our universe."

Your brain is faster and more powerful than a supercomputer.

Imagine that your cat jumps onto the kitchen counter, and is about to step onto a hot stove. In situations like this, your brain reads the signals from your eyes and quickly calculates when, where, and at what speed you need
10 to run to save her. Then it tells your muscles to move. No computer can match your brain's ability to download, process, and react to the flood of information from your eyes, ears, and other sensory organs.

Your brain generates enough electricity to turn on a light bulb.

Your brain contains about 100 billion tiny cells called neurons. Whenever you
15 dream, laugh, think, see, or move, tiny chemical and electrical signals are racing between these neurons along billions of tiny neural pathways. Countless messages fly around inside your brain every second, like a super-fast game of table tennis. Your neurons create and send more messages than all the phones in the entire world. And although a single neuron generates
20 only a tiny amount of electricity, all of them together can generate enough electricity to power a light bulb.

Neurons can send information to your brain extremely quickly.

If a bee lands on your foot, sensory neurons in your skin send this information to your brain at a speed of more than 240 kilometers per hour. Your brain
25 then uses motor neurons to send a message back to your foot: Shake the bee off quickly! Motor neurons can send this information at more than 320 kilometers per hour.

When you learn, you change the structure of your brain.

Riding a bike seems impossible at first, but you can soon master it. How? As
30 you practice, your brain sends "bike riding" messages along certain neural pathways again and again, forming new connections. In fact, the structure of your brain changes every time you learn, as well as whenever you have a new thought or memory.

Exercise helps make you smarter.

35 It is well known that exercise is great for your body and can even improve your mood. But scientists have also learned that your body produces a chemical after you exercise that makes it easier for your brain to learn. So, if you're stuck on a homework problem, go out and play soccer, and then try the problem again. You might discover that you're able to solve it!



A test recording the amount of electrical activity in the brain

Comprehension

A Answer the questions about *Your Amazing Brain*.

- Purpose** What is the purpose of the article?
 - To describe how incredible the brain is
 - To discuss the latest theories about the brain
 - To show how little we know about the brain
- Vocabulary** In lines 11–12, “the flood of information” means ____ of information.
 - a lack
 - a variety
 - a huge amount
- Detail** The processing power of your brain allows you to ____ in an emergency situation.
 - react quickly
 - remain calm
 - be creative
- Detail** Each new memory or skill you gain creates new ____.
 - motor neurons
 - sensory neurons
 - neural pathways
- Inference** If you were stuck on a homework problem, the author might suggest ____.
 - playing tennis
 - taking a deep breath
 - doing a number puzzle

B Complete the summary. Use the words in the box.

signals muscles pathways neurons learn brain

When you dream, laugh, think, or see, various (1) _____ race between (2) _____ along (3) _____. When your (4) _____ senses an emergency or needs your body to do something, it tells your (5) _____ to move. After you exercise, it is easier for your brain to (6) _____.

C CRITICAL THINKING Talk with a partner. Do you think there are differences between male and female brains? What do you think is different?

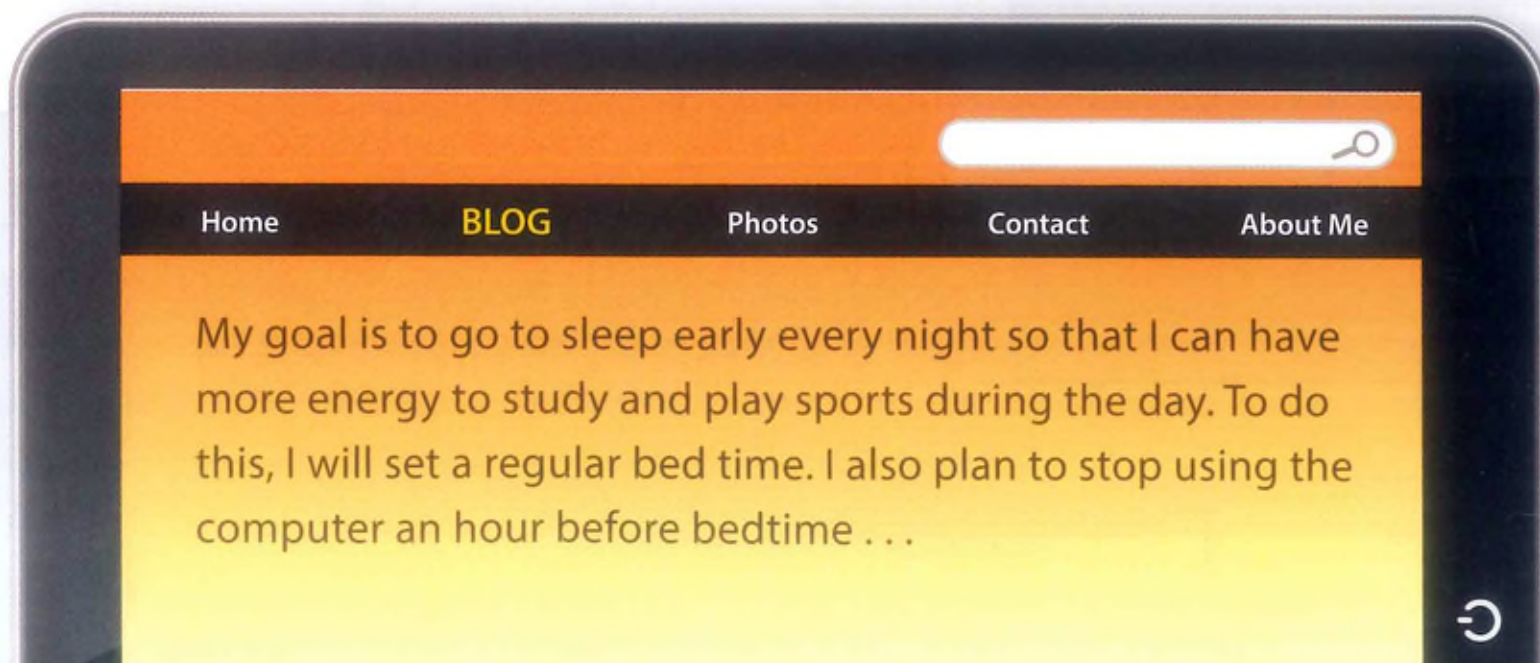
IDIOM

If someone wants to “pick your brain,” they’ll probably ____.

- give you a brain scan
- look at your test scores
- ask you questions

Writing

Write an action plan.
Set a health-related goal and create a step-by-step plan.



Space Food

ABOUT THE VIDEO

Since the start of human space flight, NASA has been working to improve the food for its astronauts.

BEFORE YOU WATCH

Talk with a partner. What do you think are important features of space food? Circle the words in the box.

Space food has to be . . .

| | | | |
|--------------|--------------|-------|--------------|
| light | cheap | fresh | healthy |
| easy to hold | low in sugar | tasty | microwavable |

WHILE YOU WATCH

A Check your answers to the Before You Watch question.

B Watch the video again. Circle the correct answers.

1. Freeze-dried food is (**lighter** / **heavier**) than regular food.
2. Freeze-dried food (**needs** / **doesn't need**) to be kept in a fridge.
3. Astronauts (**often** / **rarely**) eat fresh fruit.
4. In the video, the astronauts are having a special meal because it's (**Thanksgiving** / **Christmas**).

AFTER YOU WATCH

Talk with a partner. Do you think space food could be useful on Earth? If you went to space, what food would you want to take with you?

A meal in space



UNIT 3 LANGUAGE FOCUS

Work with a partner. Copy the words you wrote on page 29 in the spaces below. Then take turns reading each problem and giving each other advice.

Problem 1:

I want to dress better. My (1) _____ always gives me advice. He/She always says "If I were you, I'd wear more colorful (2) _____ and (3) _____. You'll look nicer." He/She also says (4) _____ is a good color for me. Should I take this advice? Do you have better advice for me?

Problem 2:

I want to have a healthier lifestyle. My sister says I should eat more (5) _____ and less (6) _____. She says I could do more sports, like (7) _____. Do you think this is good advice? What do you think I should do to have a healthier lifestyle?

UNIT 4 LANGUAGE FOCUS

Skim the news article. Ask your partner questions to complete the article. Use the words in parentheses to help you ask questions.

Student A:

A Cry for Help

A baby manatee calls out for its mother. She doesn't hear any reply. A man finds the baby, and calls for help. He knows the baby won't survive without its mother—baby manatees need their mother to show them where to find food.

A rescue team rushes to the river. They see the baby manatee in the water. They lower a (1) _____ (**what**) into the water. They manage to catch the baby. They then carry her to the team's vehicle. Here she is placed in a swimming pool and then driven to (2) _____ (**where**). The vet gives her (3) _____ (**what**). The examination shows that the baby, now named Kee, is underweight. To increase her weight, Kee is given milk (4) _____ (**how often**).

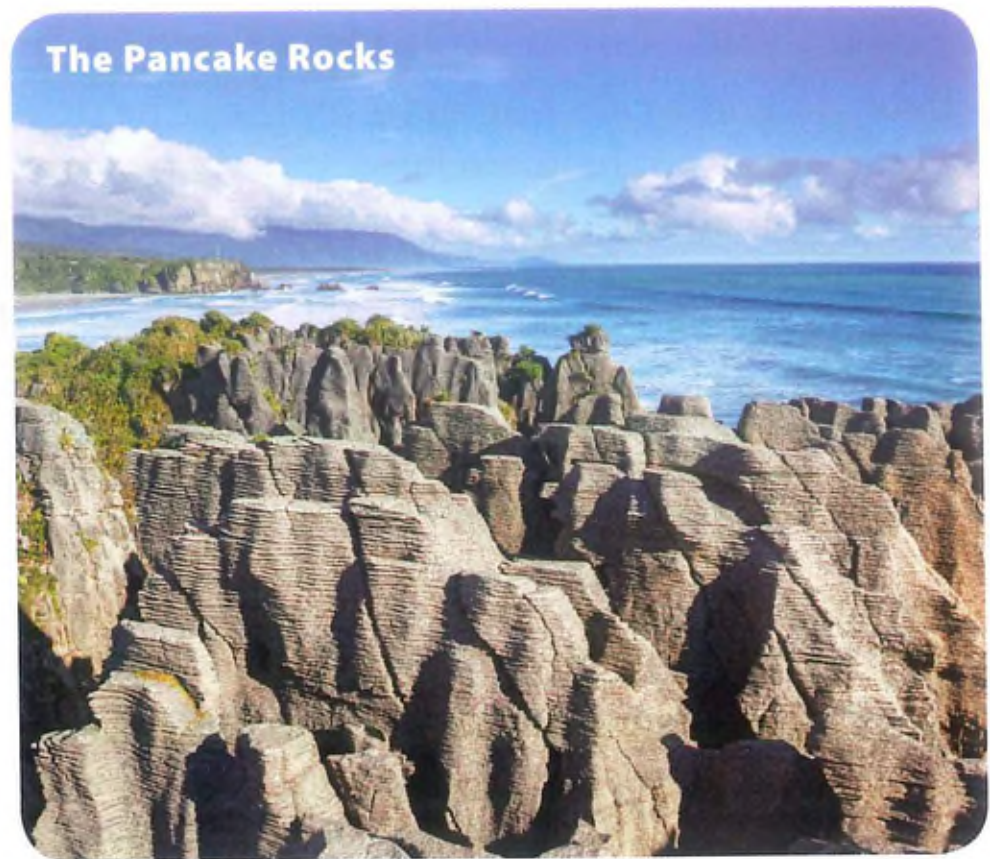
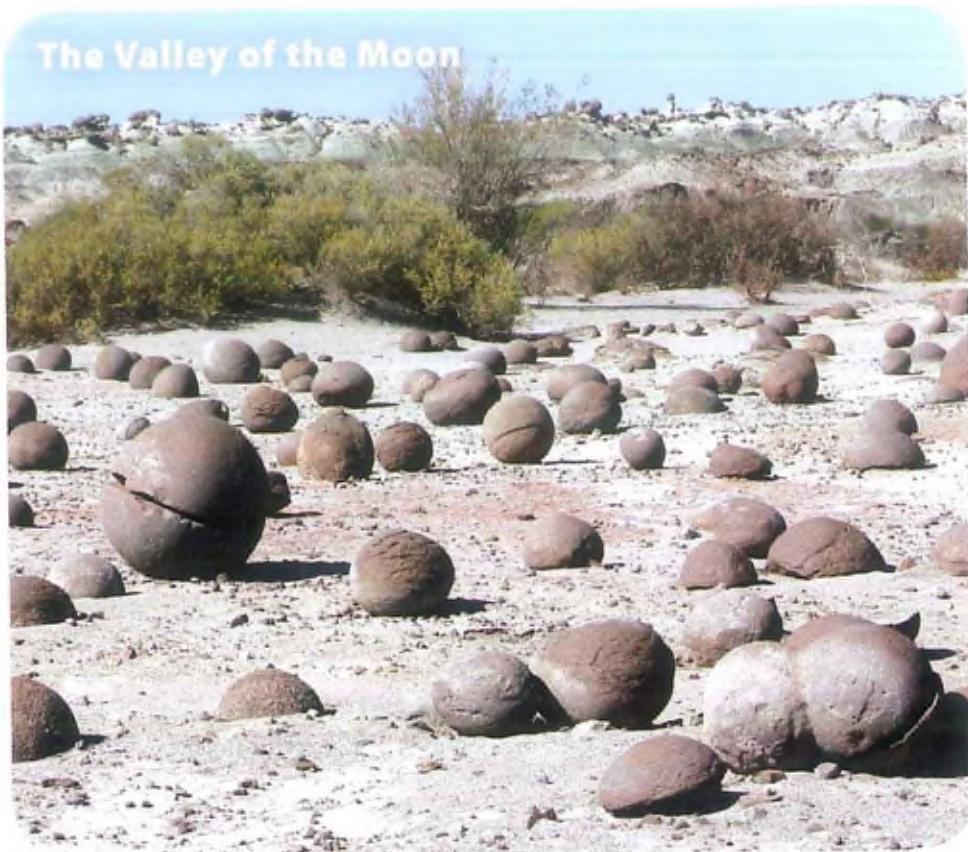
There is another manatee at the zoo, named Della. An accident with a boat caused her to be brought to the zoo. Della has given birth to a baby named Pal. This gives Virginia Edmonds, a caretaker at the zoo, an idea. She hopes Della will care for Kee like her baby. So the three manatees are placed in the same pool. Within hours, Della begins to feed Kee. Soon, they are doing everything together. They're one family now.

After five months, Della has recovered. It's time for her and her family to return to the wild. They are driven to the river's edge and released. "Kee is back where she belongs," says Edmonds.

UNIT 5 LANGUAGE FOCUS

Look at the photos below. Ask your partner questions about the Pancake Rocks. Answer your partner's questions about The Valley of the Moon.

Student A:



What is The Valley of the Moon?

- The Valley of the Moon is a desert area in north-western Argentina.
- The area has a dry and windy climate.

What's found there?

- Unusual rock formations—some are shaped like balls, others like towers, and even the Sphinx!
- Many dinosaur fossils are hidden within the rocks.

How were they formed?

- The rocks are up to 240 million years old. They were worn down by the wind.
- They were also shaped by rain water.

What are the Pancake Rocks?

- The Pancake Rocks are _____.
- The area also contains enormous _____ which shoot seawater high into the sky during high tides.

Where are they?

- The west coast of the South Island of New Zealand

How were they formed?

- They were formed over 30 million years ago from ancient _____.
- The plants and animals were flattened by _____, and formed limestone.
- The limestone has since been shaped by _____, _____, and _____.

UNIT 4 LANGUAGE FOCUS

Skim the news article. Ask your partner questions to complete the article. Use the words in parentheses to help you ask questions.

Student B:

A Cry for Help

A baby manatee calls out for its mother. She doesn't hear any reply. A man finds the baby, and calls for help. He knows the baby won't survive without its mother—baby manatees need their mother to show them where to find food.

A rescue team rushes to the river. They see the baby manatee in the water. They lower a small net into the water. They manage to catch the baby. They then carry her to the team's vehicle. Here she is placed in a swimming pool and then driven to a local zoo. The vet gives her a checkup. The examination shows that the baby, now named Kee, is underweight. To increase her weight, Kee is given milk every three hours.

There is another manatee at the zoo, named Della. An accident with a (5) _____ (**what**) caused her to be brought to the zoo. Della has given birth to a baby named Pal. This gives Virginia Edmonds, a caretaker at the zoo, an idea. She hopes Della will care for Kee like her baby. So the three manatees are placed in (6) _____ (**where**). Within hours, Della begins to (7) _____ (**what**). Soon, they are doing everything together. They're one family now.

After five months, Della has recovered. It's time for her and her family to return to the wild. They are driven to the river's edge and (8) _____ (**what**). "Kee is back where she belongs," says Edmonds.

UNIT 11 COMMUNICATION

Read the information below.

Team A:

You **support** the project. Think of ways the building of the mall will benefit the town. Come up with a list of arguments. Think about these areas: the effect on the economy, jobs, and tourism. Also, think of points to counter Team B's possible arguments.

Follow these steps:

1. Team A: Present your arguments.
2. Team B: Counter Team A's arguments, and present your arguments.
3. Team A: Counter Team B's arguments, and summarize your arguments.
4. Team B: Summarize your arguments.
5. Discuss which team you think wins the debate.

UNIT 6 COMMUNICATION

Choose one of the animals below. Give clues using the facts provided. Don't say the name of the animal you've picked. If **Group B** guesses incorrectly, give another clue until they guess the animal. The team with the fewest number of guesses wins.

Group A:

Albatross (bird)



Lifespan in the wild: about 50 years

Habitat: Southern Ocean and North Pacific Ocean

Interesting fact 1: It drinks salt water.

Interesting fact 2: An albatross was once recorded circling the whole world in 46 days.

Interesting fact 3: It sometimes floats on the sea's surface.

Emperor penguin (bird)



Lifespan in the wild: 15 to 20 years

Habitat: Antarctica

Interesting fact 1: It can dive 565 m and stay underwater for more than 20 minutes.

Interesting fact 2: It only has one chick a year.

Interesting fact 3: It keeps the egg warm by covering it with feathered skin.

Bottlenose dolphin (mammal)



Lifespan in the wild: 45 to 50 years

Habitat: Warm and tropical waters around the world

Interesting fact 1: It can swim 30 km/h and jump almost 5 m out of the water.

Interesting fact 2: It only lets one half of its brain sleep at a time.

Interesting fact 3: It can use echolocation to find its prey.

Northern fur seal (mammal)



Lifespan in the wild: up to 26 years

Habitat: Cold waters of the north Pacific Ocean

Interesting fact 1: It usually looks for food at night.

Interesting fact 2: It has large eyes that let it see well under water and at night.

Interesting fact 3: It has huge flippers to keep it cool.

Dugong (mammal)



Lifespan in the wild: about 70 years

Habitat: Warm coastal waters of the Red Sea, Indian Ocean, and Pacific Ocean

Interesting fact 1: It can stay underwater for 6 minutes.

Interesting fact 2: It is related to elephants.

Interesting fact 3: It was sometimes mistaken for a mermaid by sailors.

Hermit crab (shellfish)



Lifespan in the wild: up to 30 years

Habitat: Salt water from shallow coastal areas to deep seas worldwide

Interesting fact 1: It is active at night.

Interesting fact 2: Some people keep them as pets.

Interesting fact 3: It often climbs over another of its kind instead of going around.

Group B's animals:

leatherback turtle
stonefish

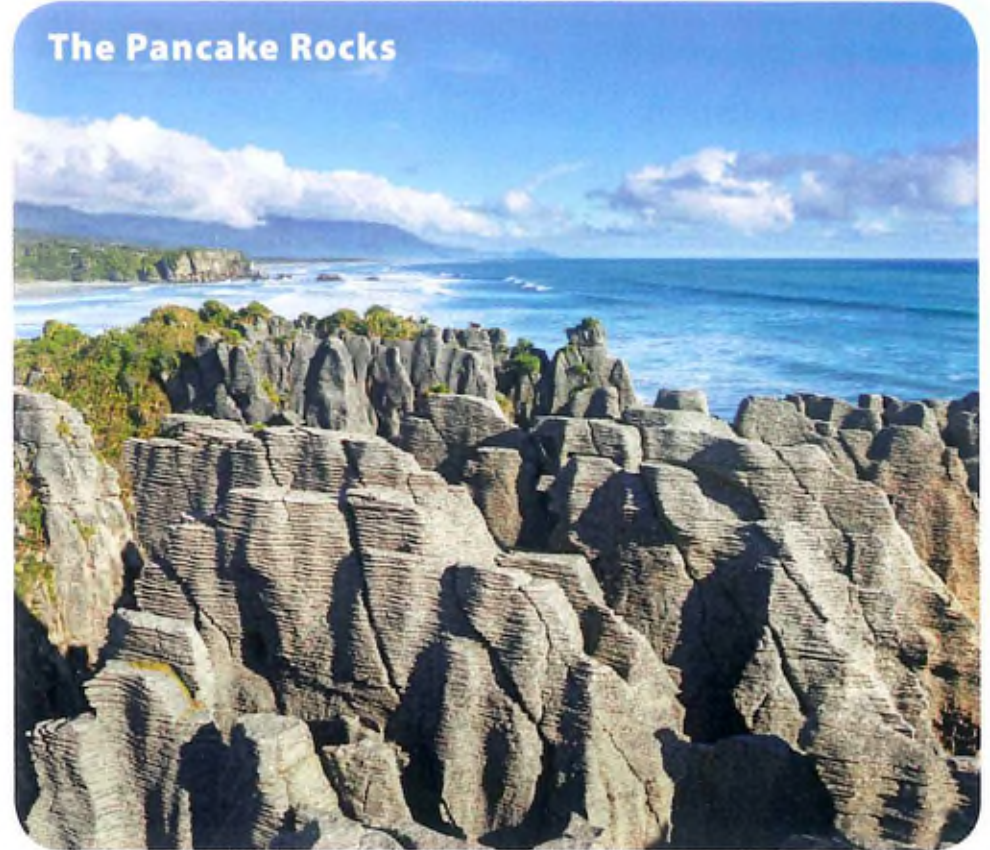
sea otter
saltwater crocodile

manta ray
whale shark

UNIT 5 LANGUAGE FOCUS

Look at the photos below. Ask your partner questions about The Valley of the Moon. Answer your partner's questions about the Pancake Rocks.

Student B:



What is The Valley of the Moon?

- The Valley of the Moon is a _____ in north-western Argentina.
- The area has a _____ climate.

What's found there?

- Unusual rock formations—some are shaped like _____, others like _____, and even the Sphinx!
- Many _____ fossils are hidden within the rocks.

How were they formed?

- The rocks are up to 240 million years old. They were worn down by _____.
- They were also shaped by _____.

What are the Pancake Rocks?

- The Pancake Rocks are layers of flat rock.
- The area also contains enormous "blowholes" which shoot seawater high into the sky during high tides.

Where are they?

- The west coast of the South Island of New Zealand

How were they formed?

- They were formed over 30 million years ago from ancient sea creatures and plants.
- The plants and animals were flattened by great water pressure, and formed limestone.
- The limestone has since been shaped by rain, wind, and seawater.

UNIT 6 COMMUNICATION

Choose one of the animals below. Give clues using the facts provided. Don't say the name of the animal you've picked. If **Group A** guesses incorrectly, give another clue until they guess the animal. The team with the fewest number of guesses wins.

Group B:

Leatherback turtle (reptile)



Lifespan in the wild: about 45 years

Habitat: Tropical and warm waters of the Atlantic, Pacific, and Indian Oceans, but seen in colder oceans, too

Interesting fact 1: It can dive 1,280 m and stay underwater for 85 minutes.

Interesting fact 2: It buries its eggs in the sand.

Interesting fact 3: It is endangered.

Manta ray (fish)



Lifespan in the wild: up to 20 years

Habitat: Warm waters, often near coral reefs

Interesting fact 1: It looks like a blanket.

Interesting fact 2: It looks dangerous but is actually very gentle.

Interesting fact 3: It eats about 13% of its body weight in food each week.

Saltwater crocodile (reptile)



Lifespan in the wild: up to 70 years

Habitat: Freshwater and saltwater areas of eastern India, southeast Asia, and northern Australia

Interesting fact 1: Some people say they are the animal most likely to eat a human.

Interesting fact 2: It kills 1–2 people every year in Australia.

Interesting fact 3: It sometimes swims far out to sea.

Sea otter (mammal)



Lifespan in the wild: up to 23 years

Habitat: Coasts of the Pacific Ocean in North America and Asia

Interesting fact 1: It washes itself in the ocean to keep clean after eating.

Interesting fact 2: It has to eat 3 hours a day to stay warm.

Interesting fact 3: It uses rocks to break open shellfish.

Stonefish (fish)



Lifespan in the wild: not known

Habitat: On coral reefs and near rocks, in warm and tropical waters of the Indian and Pacific Oceans

Interesting fact 1: It is one of the most poisonous fish in the world.

Interesting fact 2: It can live outside of the ocean for 20 hours.

Interesting fact 3: It hides itself and waits for its prey to swim past.

Whale shark (fish)



Lifespan in the wild: from 60 to 100 years

Habitat: Warm and tropical waters all over the world

Interesting fact 1: It looks dangerous but is actually very gentle.

Interesting fact 2: It eats tiny plants and animals.

Interesting fact 3: It can only reproduce when it is about 30 years old.

Group A's animals:

albatross

emperor penguin

bottlenose dolphin

northern fur seal

dugong

hermit crab

UNIT 11 COMMUNICATION

Read the information below.

Team B:

You **don't support** the project. Think of ways the building of the mall wouldn't be good for the town. Come up with a list of arguments. Think about these areas: the effect on small businesses, housing prices in areas near the mall, and the environment. Also, think of points to counter Team A's possible arguments.

Follow these steps:

1. Team A: Present your arguments.
2. Team B: Counter Team A's arguments, and present your arguments.
3. Team A: Counter Team B's arguments, and summarize your arguments.
4. Team B: Summarize your arguments.
5. Discuss which team you think wins the debate.

IRREGULAR PAST TENSE VERBS

| BASE FORM | PAST FORM | PAST PARTICIPLE |
|-----------|-----------|-----------------|
| become | became | become |
| bring | brought | brought |
| buy | bought | bought |
| catch | caught | caught |
| choose | chose | chosen |
| come | came | come |
| cost | cost | cost |
| cut | cut | cut |
| draw | drew | drawn |
| drink | drank | drunk |
| drive | drove | driven |
| eat | ate | eaten |
| fall | fell | fallen |
| feel | felt | felt |
| fight | fought | fought |
| find | found | found |
| fly | flew | flown |
| get | got | gotten |
| give | gave | given |
| go | went | gone |
| grow | grew | grown |
| hear | heard | heard |
| hurt | hurt | hurt |
| keep | kept | kept |
| know | knew | known |
| let | let | let |
| lose | lost | lost |

| BASE FORM | PAST FORM | PAST PARTICIPLE |
|------------|------------|-----------------|
| make | made | made |
| mean | meant | meant |
| meet | met | met |
| pay | paid | paid |
| put | put | put |
| read | read | read |
| ride | rode | ridden |
| run | ran | run |
| say | said | said |
| see | saw | seen |
| sell | sold | sold |
| send | sent | sent |
| steal | stole | stolen |
| sing | sang | sung |
| sleep | slept | slept |
| speak | spoke | spoken |
| swim | swam | swum |
| take | took | taken |
| teach | taught | taught |
| tell | told | told |
| think | thought | thought |
| throw | threw | thrown |
| understand | understood | understood |
| wake | woke | woken |
| wear | wore | worn |
| win | won | won |
| write | wrote | written |

LANGUAGE NOTES

UNIT 1 I LOVE MAKING JEWELRY!

VERB + -ING (STATEMENTS)

| | | |
|------------------------|--|--|
| I You We They | love like enjoy don't like hate can't stand | baking. doing puzzles. cooking. playing sports. |
| He She | loves likes enjoys doesn't like hates can't stand | |

VERB + -ING (QUESTIONS AND SHORT ANSWERS)

| | | | |
|---------------------|-------------------------------|---------------------------|--|
| Do you Do they | love like enjoy hate | baking? doing puzzles? | Yes, I do . / No, I don't . Yes, they do . / No, they don't . |
| Does he Does she | | | Yes, he does . / No, he doesn't . Yes, she does . / No, she doesn't . |

GERUNDS AS SUBJECTS

Skiing is great exercise.

Building models can be a lot of fun.

Performing in front of people makes me nervous.

UNIT 2 HOW LONG HAVE YOU BEEN PLAYING CRICKET?

PRESENT PERFECT PROGRESSIVE STATEMENTS (WITH *SINCE*, *FOR*, *LATELY*, *RECENTLY*)

| | | |
|-----------|--|---|
| I They | have been playing cricket haven't been going to the gym | since 2013. for a long time. a lot lately. recently. |
| He She | has been doing archery hasn't been playing badminton | |

PRESENT PERFECT PROGRESSIVE (QUESTIONS)

How long **have** you **been working** out?

How long **has** he **been playing** rugby?

What **have** you **been doing since** breakfast?

What sports **has** he **been playing** lately?

What TV shows **have** they **been watching recently**?

Have you **been playing** the guitar **long**?

Has she **been doing** taekwondo **for** a long time?

Have they **been practicing** their dance **since** morning?

UNIT 3 YOU COULD ASK FOR ADVICE.

MODALS FOR ADVICE (QUESTIONS)

| | | | |
|------|-------------------------------|------------------------|--------------------------|
| What | should could | I he she they | do to solve the problem? |
|------|-------------------------------|------------------------|--------------------------|

MODALS FOR ADVICE (ANSWERS)

| | | |
|-------------------------------|-------------------------------|---|
| You He She They | should could | apologize. ask someone for help. try a different way of studying. |
| If I were you, I would | | |

TRY + GERUND

| | |
|---|--|
| Have you tried Why don't you try | saying you're sorry? talking to a teacher? explaining your side of the story? |
|---|--|

UNIT 4 THE KOALA WAS TAKEN TO A SHELTER.

ACTIVE VS. PASSIVE VOICE (1)

We use the active voice to say what the subject of the sentence does.

| Subject | Active Verb | Object |
|-------------|-----------------|----------------------|
| Some people | rescued | the baby raccoon. |
| The vet | attached | three tracking tags. |

ACTIVE VS. PASSIVE VOICE (2)

We use the passive voice when we want to change the object of the sentence into the subject.

| Subject | Passive Verb |
|---------------------|-----------------------|
| The baby raccoon | was rescued. |
| Three tracking tags | were attached. |

PASSIVE VOICE

| Simple Present | Simple Past |
|--|---|
| The koala is wrapped in a blanket. When is it given a bath? Is it kept in a cage overnight? | The puppies were checked for injuries. What time were they brought in? Were they given any medicine? |

USE OF THE PASSIVE VOICE (1)

We use the passive voice if the subject is unknown or unimportant.

| | |
|---|---|
| The pet cat was abandoned in a field. | (Someone or some people abandoned the cat, but it is unknown who did so.) |
| A baby bird was brought into the animal shelter. | (Someone or some people brought it in, but who did so is not important.) |

USE OF THE PASSIVE VOICE (2)

We also use the passive voice to make general statements.

| |
|--|
| Kittens are usually adopted very quickly. |
| Wild animals are typically checked for any injuries. |

UNIT 5 HOW WAS IT FORMED?

PASSIVE VOICE (WITH BY)

We use the passive voice to emphasize the receiver of an action. We use *by* to name the person or thing that does the action (the agent).

| Present Continuous | Present Perfect |
|--|--|
| <p>This beach is being washed away by the sea.</p> <p>Why is this park being closed by the Park Service?</p> <p>Is this glacier being moved by gravity?</p> | <p>The rock has been broken apart by freezing and melting ice.</p> <p>How has the Earth's environment been changed by pollution?</p> <p>Has this canyon been shaped by wind or water?</p> |

UNIT 6 LOOK AT THAT NARWHAL!

NON-RESTRICTIVE RELATIVE CLAUSES (WHICH AND WHO)

The seahorse, **which is a type of fish**, uses its tail to move forward.
 Oceanography, **which is also called "marine science"**, is the scientific study of the world's oceans.
 The Great Barrier Reef is an important habitat for millions of animals, **which depend on it for food and shelter**.

Tourists, **who don't always get proper training**, sometimes damage coral reefs.
 Sylvia Earle, **who holds the world record for solo scuba diving**, is a National Geographic Explorer.
 Jacques Cousteau, **who is probably the most famous oceanographer in the world**, died in 1997.

UNIT 7 IT MIGHT HAVE BEEN A TEMPLE.

MODALS OF PROBABILITY

| | Less Sure | More Sure |
|---------|---|---|
| Present | <p>This stone could/might be worth a lot of money.</p> <p>It might not be an arrowhead.</p> | <p>This vase can't/couldn't be iron because it's too light.</p> <p>This must be the burial site.</p> <p>These coins don't have Latin on them, so they must not be Roman.</p> |
| Past | <p>Early traders could/might have left these gold coins here.</p> <p>They might not have built these statues by themselves.</p> | <p>This is made of gold. It must have belonged to someone important.</p> <p>They couldn't have left the island—they didn't have any boats.</p> |

UNIT 8 IT'S TALLER THAN THE EIFFEL TOWER!

TOO AND (NOT) ENOUGH

It's **too cloudy** today. I can't see anything.
You're **too old** to get the ticket discount. You need to be 18 or under.
He's **old enough** to drive. He just turned 16 so he has a license.
This car is **not big enough** for our family. We need a larger one.

(NOT) AS + ADJECTIVE + AS

I think living in Osaka is **as expensive as** Tokyo.
The Oakland Bay Bridge is probably **not as famous as** the Golden Gate Bridge.

COMPARATIVE AND SUPERLATIVE ADJECTIVES

| | | | |
|--|---------------------|---|---|
| Short adjectives (1 syllable) | fast deep | faster than deeper than | the fastest the deepest |
| 1-syllable adjectives (ending with a short vowel sound and a single consonant) | big hot | bigger than hotter than | the biggest the hottest |
| Adjectives ending in -y | pretty hungry | prettier than hungrier than | the prettiest the hungriest |
| Longer adjectives (2 or more syllables) | famous expensive | more famous than more expensive than | the most famous the most expensive |
| Irregular adjectives | good bad | better than worse than | the best the worst |

UNIT 9 HE'S A GREAT DIRECTOR, ISN'T HE?

TAG QUESTIONS

| Positive Statement + Negative Tag | Negative Statement + Positive Tag |
|--|---|
| It's a horror movie, isn't it? | It isn't a horror movie, is it? |
| They're famous, aren't they? | They aren't famous, are they? |
| She was watching a movie, wasn't she? | She wasn't watching a movie, was she? |
| They were popular, weren't they? | They weren't popular, were they? |
| He directs comedies, doesn't he? | He doesn't direct comedies, does he? |
| They appear in action movies, don't they? | They don't appear in action movies, do they? |
| You liked that movie, didn't you? | You didn't like that movie, did you? |
| We've seen <i>Star Wars</i> , haven't we? | We haven't seen <i>Star Wars</i> , have we? |
| I can watch that movie, can't I? | I can't watch that movie, can I? |
| She should buy a ticket, shouldn't she? | She shouldn't buy a ticket, should she? |
| They'll win an award, won't they? | They won't win an award, will they? |

TAG QUESTIONS (IRREGULAR FORMS)

| | |
|--|---|
| I'm invited, aren't I? | I'm not invited, am I? |
| You have to be 21 to enter, don't you? | You don't have to be 21 to enter, do you? |

TAG QUESTIONS (SHORT ANSWERS)

| | |
|--|--|
| George Lucas directed <i>Star Wars</i> , didn't he? George Lucas didn't direct <i>Star Wars</i> , did he? | Yes, he did. (He did direct it.) |
| Steven Spielberg directed <i>Star Wars</i> , didn't he? Steven Spielberg didn't direct <i>Star Wars</i> , did he? | No, he didn't. (He did not direct it.) |

UNIT 10 I WISH I COULD BE AN ATHLETE!

WISH

| | |
|---|---|
| I am not young. I don't have a job. I have a test tomorrow. I can't fly. | I wish I were young. I wish I had a job. I wish I didn't have a test tomorrow. I wish I could fly. |
|---|---|

SECOND CONDITIONAL (STATEMENTS)

If I **had** a lot of money, I'd **travel** around the world.

If I **didn't have** a test tomorrow, I'd **go** watch a movie.

If I **could choose** any superpower, I'd **want** to be able to read people's minds.

SECOND CONDITIONAL (QUESTIONS AND SHORT ANSWERS)

If you **didn't have** to go to school, **would** you **go** anyway?

Yes, I **would**. /

If you **could travel** back in time, **would** you **want** to?

No, I **wouldn't**.

UNIT 11 WHAT WOULD YOU DO?

PRESENT PERFECT PROGRESSIVE

Someone **has been borrowing** my things without asking.

My neighbors **have been having** loud parties lately.

PASSIVE VOICE

Small animals **are** often **adopted** very quickly.

The injured bear **was given** medicine to calm it down.

The injured dog **is being treated** right now.

The adult turtles **have been released** into the sea.

The animal rescue league **is supported by** hundreds of volunteers.

Several trees in the park **were cut down by** illegal loggers.

The face of the statue **has been eroded away by** the wind.

GIVING ADVICE

You **could** apologize.

You **should** find out the cause of the problem.

Have you **tried asking** for help?

Why don't you talk to your family about it?

MODALS OF PROBABILITY

This coin **could/might** be iron.

This **might not** be gold.

The royal family **could/might** have escaped from the city.

The ship's captain **might not** have realized his mistake in time.

This bag **can't/couldn't** be Diana's. She didn't bring one today.

This **must** be the king's tomb. Look at all the gold!

The city **must have been** very beautiful back then. Look at these drawings!

They **couldn't** have made these tools. They didn't know how to work with iron.

SECOND CONDITIONAL

If I **had** more time, I'd **take** a night class.

If I **didn't have** a class at 4:00, I'd **play** basketball.

If I **could cure** any disease, I'd **want** to cure cancer.

UNIT 12 YOU SHOULD EAT MORE FRUIT!

GERUNDS

I love **working out**.

I don't like **eating** a lot of red meat.

Exercising helps reduce stress.

COMPARATIVE AND SUPERLATIVE ADJECTIVES

Juice is **healthier than** soda.

Fresh fruit is **more expensive than** canned fruit.

Whole grain bread is **better** for you **than** white bread.

TOO AND (NOT) ENOUGH

I'm **too tired** to continue running.

Talia is **tall enough** to take the roller coaster.

Alex is **not strong enough** to lift that desk.

(NOT) AS + ADJECTIVE + AS

Vegetable burgers are **just as tasty as** beef burgers.

Turkey is **not as fatty as** lamb.

NON-RESTRICTIVE RELATIVE CLAUSES

Fast food, **which** is often high in calories, is junk food.

My cousin, **who** studied sports science in college, is now a personal trainer.

TAG QUESTIONS

Avocados are good for you, **aren't they?**

Paul went to the farmers' market, **didn't he?**

Todd and Allison won't be at the race, **will they?**

Iris isn't going to the supermarket, **is she?**

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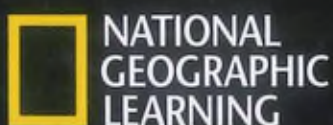
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