

**FOUNDATIONS** 

THIRD EDITION

### READING EXPLORER

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Reading Explorer Foundations Third Edition

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### SCOPE AND SEQUENCE

UNIT	THEME	READING	VIDEO
1	Mysteries	A: A Mysterious Visitor B: The Lost City of Atlantis	Moon Mystery
2	Eating Extremes	A: The World of Speed Eating B: The Hottest Chilies	Science of Taste
3	Cool Jobs	A: Digging for the Past B: Getting the Shot	Right Dog for the Job
4	Shipwrecks	A: I've Found the Titanic! B: My Descent to the Titanic	An Ancient Shipwreck
5	Science Investigators	A: The Disease Detective B: At the Scene of a Crime	The Flu Virus
6	Plants and Trees	A: Planting for the Planet B: Fatal Attraction	Giants of the Forest
7	Mind's Eye	A: Understanding Dreams B: Seeing the Impossible	Parasomnia
8	Animal Wonders	A: A Penguin's Year B: Do Animals Laugh?	Amazing Narwhals
9	Building Beauty	A: A Love Poem in Stone B: The Great Dome of Florence	Brunelleschi's Dome
10	Forces of Nature	A: Wild Weather B: When Weird Weather Strikes	Tornado Terror
11	Giants of the Past	A: The Mammoth's Tale B: Monsters of the Deep	Ichthyosaurs
12	Technology	A: The Robots are Coming! B: How Will We Live in 2045?	A Social Robot

ACAD	EMIC SKILLS	
READING SKILL	VOCABULARY BUILDING	CRITICAL THINKING
A: Scanning B: Skimming	A: Word usage: pass and past B: Word forms of sink and strike	A: Applying Ideas B: Synthesizing Information
A: Identifying the Parts of a Passage B: Pronoun Reference	A: Collocations with argue B: Collocations with painful	A: Justifying Opinions B: Applying Ideas
A: Dealing with New Vocabulary (1)—Using a Dictionary B: Understanding Suffixes	<ul><li>A: Collocations with get</li><li>B: Word forms of pay, cost, and spend</li></ul>	A: Evaluating Advice B: Personalizing; Synthesizing Information
A: Identifying a Paragraph's Main Idea     B: Recognizing Compound Subjects and Objects	A: Word usage: agree B: Synonyms for totally	A: Evaluating Arguments B: Evaluating Ideas; Justifying Ideas
A: Identifying the Purpose of a Paragraph B: Inferring Meaning	A: Suffix -ous B: Word forms of possible	A: Applying Ideas B: Evaluating Evidence; Sythesizing Information
A: Creating a Timeline of Events B: Understanding a Process	A: Word forms with <i>-ation</i> B: Collocations with <i>difference</i>	A: Justifying Opinions B: Applying Ideas
A: Organizing Information (1)—Creating a Concept Map B: Understanding Conjunctions	A: Adjectives with -ed and -ing B: Collocations with mistake	<b>B:</b> Reflecting; Applying Ideas
A: Dealing with New Vocabulary (2)—Using Context B: Identifying Supporting Details	A: Word usage: on (your) own B: Adjectives to describe emotions	A: Categorizing Information B: Evaluating Supporting Details
A: Annotating Text B: Understanding Infographics	A: Collocations with promise     B: Words acting as nouns     and verbs	A: Understanding Opinions B: Synthesizing Information; Inferring Information
A: Understanding Tenses B: Understanding Cause and Effect	A: Prefix fore- B: Synonyms and antonyms for <i>unusual</i>	A: Personalizing B: Ranking Advice
A: Understanding Passive Sentences B: Organizing Information (2)—A Chart	A: Collocations with in B: Suffix -ward	A: Discussing Pros and Cons B: Ranking
A: Identifying Examples B: Understanding Prefixes	A: Collocations with daily B: Word usage: pick up	A: Justifying Opinions B: Rating Predictions; Evaluating Ideas

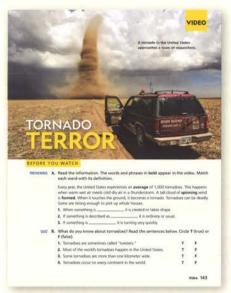
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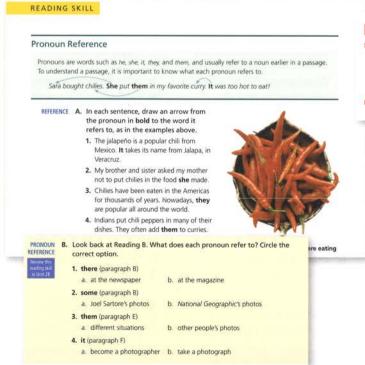




National Geographic Videos expand on the unit topic and give you

a chance to apply your language skills.

**Reading Skill** and **Reading Comprehension** sections provide the tools you need to become an effective reader.



Imagine the following items are also found at the crime scene in Reading B. How helpful will they be for solving the crime? Rate each one from 1 (very useful) to 5 (not useful). a rock by the window a mark made with a glove \_\_\_\_ a drop of oil from the car a drop of blood near the window a cellphone on the road outside a flashlight on the store floor Discuss your ideas with a partner. WORD FORMS C. The suffix -ous can be added to some nouns to make adjectives (e.g., danger → dangerous). Complete the chart below. Nouns Adjective danger dangerous adventurous fame mysterious Now complete the sentences using the correct form of the words above. 1. My road trip through New Zealand was a real 2. The doctor had no idea about the cause of the illness. It was a(n) ..., many people will recognize you.

**Expanded Vocabulary Practice** sections teach you the most useful words and phrases needed for academic reading.

California's "sailing stones" were once a mystery. We now know that the rocks are moved by strong winds when the ground is icy.

### WARM UP

### Discuss these questions with a partner.

- 1. Read the caption. How do the rocks move?
- 2. Do you think there are things that science cannot explain? If so, give an example.

### BEFORE YOU READ

DEFINITIONS A. Look at the image and read the caption. Complete the definitions using the words in **bold**.

1. \_\_\_\_\_: scientists who study objects in space

2. \_\_\_\_\_: a rock that moves through space

SKIMMING B. Skim the passage. According to some scientists, what else could 'Oumuamua be?

An artist's drawing of 'Oumuamua—a strangely shaped object that passed by Earth. Astronomers are not sure if it was an asteroid, or something else altogether.

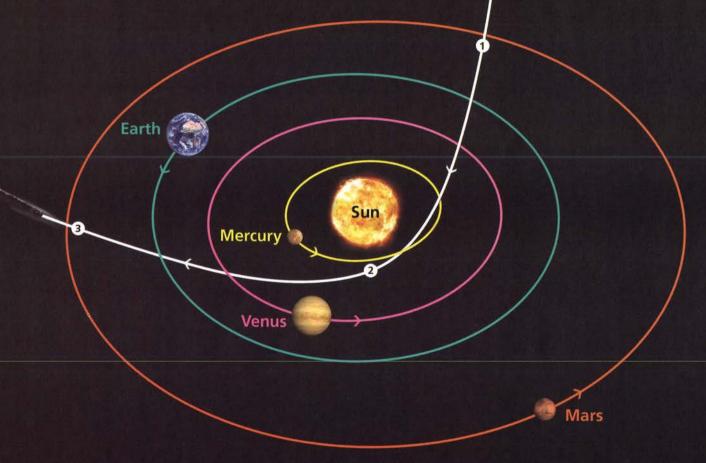
### AMYSTERIOUS VISITOR

- A In October 2017, astronomers in Hawaii saw something surprising. A **strange** object was moving through the solar system. They had seen many asteroids before, but this was something different. It was long and **thin**—like a cucumber. The object's **speed** and direction also showed something surprising. This was an interstellar object—the first ever seen.
- B The object was named 'Oumuamua—Hawaiian for "visitor from afar." Nobody is sure exactly what it is. The simplest idea is that 'Oumuamua is a strangely shaped piece of rock. Perhaps it was **knocked** out of a far-off star system. However, astronomers saw that its speed increased after **passing** the sun. Some scientists therefore suggest a different theory.
- of alien **technology**," says
  Professor Abraham Loeb from
  Harvard University. Loeb
  believes this could explain the
  object's long, thin shape, and
  also its change in speed. **Maybe**'Oumuamua was a spaceship
  that came to **explore** our solar
  system. "All possibilities should
  be considered," says Loeb.
- Oumuamua can no longer be seen from Earth. But astronomers continue to study the information they got from it. It is still not clear if the object was a large rock, or something else altogether. 'Oumuamua will likely be a mystery for many years to come.

<sup>1</sup> If an object is described as **interstellar**, it has traveled between different stars.

### 'Oumuamua: What We Know

- Entered the inner solar system in August 2017 1. Possibly came from a star system 25 light years from our sun—a 600,000-year journey.
- Reached a top speed of 315,800 km/h—more than 250 times the speed of sound—as it passed the sun 2.
- First seen by astronomers in October 2017 when it was 33,000,000 km from Earth—about 85 times further than our moon 3.



### READING COMPREHENSION

### A. Choose the best answer for each question.

### GIST

- 1. What is the reading mainly about?
  - a. new technology to help scientists find asteroids
  - b. the largest asteroid ever seen by scientists
  - c. a mysterious object that passed by Earth

### DETAIL

- 2. What did scientists learn from studying 'Oumuamua's speed and direction?
  - a. It came from another star system.
  - b. It was possible it could hit the Earth.
  - c. It was an asteroid.

### DETAIL

- **3.** What is NOT given as a reason why 'Oumuamua could be an alien spaceship?
  - a. the object's size and shape
  - b. the object's change in speed
  - c. the object's color

### **VOCABULARY**

- 4. In paragraph C, what does considered mean?
  - a. explained in detail
  - b. thought about carefully
  - c. chosen from a list

### **INFERENCE**

- **5.** According to the infographic on page 10, when was 'Oumuamua first seen from Earth?
  - a. as it entered the inner solar system
  - b. just before it passed the sun
  - c. after it passed the sun

## Scientists believe 'Oumuamua is spinning endover-end as it travels through space.

### SUMMARIZING

**B.** Complete the summary with the phrases in the box. One is extra.

- a. alien technology
- b. a cucumber
- c. another star system

- d. a rock
- e. its speed and direction
- f. our solar system

In October 2017, astronomers saw a strange object that was shaped like 1\_\_\_\_\_.

By studying 2\_\_\_\_\_, the scientists realized that the object had come from 3\_\_\_\_\_.

The object was called 'Oumuamua. Most scientists think it was just 4\_\_\_\_\_.

However, others—such as Abraham Loeb—have suggested it could be a piece of 5\_\_\_.

### Scanning

You scan a text when you want to find specific information. When you scan, you only look for the information you want. You don't read the rest of the text. For example, for the question *What does 'Oumuamua mean in Hawaiian*?, look through the text for the words *'Oumuamua* and *Hawaiian*, and possibly quotation marks (" ").

C	~	٨	NI	K1	IN	10
2	C.	А	IN	N	Ш١	IG

- **A.** Look back at Reading A. Find and underline these words in the passage as quickly as you can.
  - 1. Hawaii
- 2. surprising
- 3. theory

- 4. alien
- 5. solar system
- 6. likely

### SCANNING

- **B.** Read the questions below. Think about what answers you need to look for. Then scan Reading A and the infographic on page 10, and write the answers.
  - 1. When did astronomers first see 'Oumuamua?
  - 2. What does 'Oumuamua mean in Hawaiian?
  - 3. When did 'Oumuamua's speed increase?
  - **4.** What is Abraham Loeb's job?
  - 5. Where does Abraham Loeb work?
  - **6.** When did 'Oumuamua enter the inner solar system?
  - 7. What was 'Oumuamua's top speed?
  - **8.** How far was 'Oumuamua from Earth when it was first seen?

to help scientists solve the mystery? Note some ideas below. Then discuss with a partner.



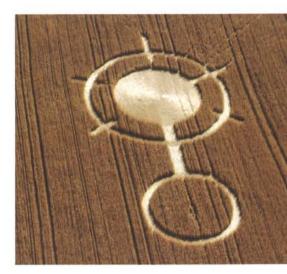
### VOCABULARY PRACTICE

DEFINITIONS A. Read the information. Match each word in red with its definitions.

### **Crop Circles**

A farmer wakes up to find something very **strange**. Someone, or **maybe** something, has made unusual shapes in his field by pushing down his crops. The shapes can only be seen from the sky. These are called crop circles.

Some people think that aliens make crop circles when they land their spaceships. However, it seems clear that they are made by people. The technology to make them is simple—just a rope and different sizes of wood to make thick or thin lines.



A crop circle is made by pushing crops down, leaving empty spaces in the field.

Some people make crop circles so others will believe in aliens. Other people make them iust for fun.

- 1 Crops are plants grown in large amounts.
- 1. \_\_\_\_\_: hard to understand or explain
- 2. \_\_\_\_\_: perhaps; possibly
- 3. \_\_\_\_\_: not wide or thick
- 4. \_\_\_\_\_: the use of science and machines to do things

### DEFINITIONS

- B. Match the two parts of each definition.
  - **1.** If you move at high **speed**, •
- · a. you hit it.
- 2. If you **knock** something,
- b. you go very fast.
- 3. If you pass a place,
- c. you learn more about it.
- **4.** When you **explore** a place, •
- d. you do not stop there.

### WORD USAGE

- C. The past tense of the verb pass (passed) is sometimes confused with the preposition past. Complete the sentences by circling the correct words.
  - 1. Scientists saw a large asteroid moving past / passed Earth.
  - 2. I passed / past by the supermarket on my way home, so I bought some bread.
  - 3. My friend just walked passed / past me and didn't stop to chat.
  - 4. 'Oumuamua reached its top speed as it past / passed the sun.

### BEFORE YOU READ

**PREVIEWING** 

**A.** Look at the picture and read the caption. Who wrote the story of Atlantis? What happened to the island?

**SCANNING** 

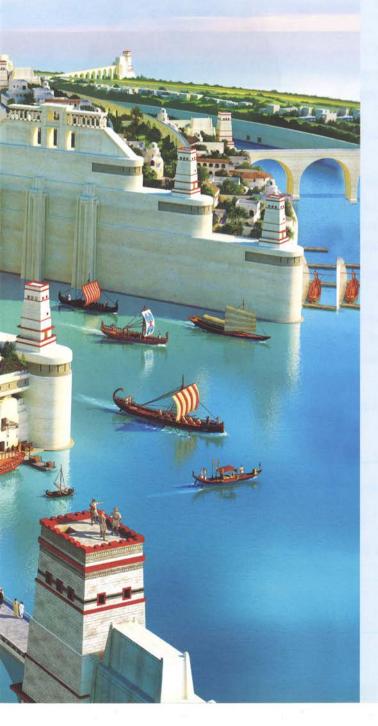
Review this reading skill in Unit 1A

- **B.** Quickly scan the passage on the next page. Remember that names of people and places usually start with capital letters.
  - 1. What names of people can you find? Underline them.
  - 2. What names of places are mentioned? Circle them.



## THE LOST CITY OF ATLANTIS

Long ago, the Greek writer Plato wrote about Atlantis—an island that disappeared into the sea.



- A Most people have heard the story of the **lost** city of Atlantis. But is any part of the story true?
- Plato wrote about Atlantis, an island in the Atlantic Ocean. The island's people were very rich. They built a big city with many great buildings. But the people became greedy—they had many things, but they still wanted more. So the gods became angry. Earthquakes¹ and large waves began to **strike** the island. **Finally**, Atlantis **sank** into the sea.
- Many explorers have looked for Atlantis. In 2004, explorer Robert Sarmast reported finding the remains<sup>2</sup> of a city under the sea near Cyprus. However, Sarmast and other scientists later realized the structures he found under the sea were natural, not man-made. Mark Adams, author of the 2016 book Meet Me in Atlantis believes the city was in Morocco. Plato wrote about red and black stone circles around the city. Adams found similar red and black stones in the desert there, very near the Atlantic Ocean.
- D Most people, however, think Atlantis is simply a story. The **purpose** of the story may be to teach people not to be greedy. Richard Ellis also wrote a book about Atlantis in 1999. He says "there is not a **piece** of solid evidence" for a real Atlantis.
- E So was the island real or not? We only know one thing: The mystery of Atlantis will be with us for a long time.
  - 1 An earthquake is the shaking of the ground caused by movement of the Earth.
  - 2 The remains of something are the parts that are left after most of it is gone.
  - 3 Evidence is anything that makes you believe that something is true.

A. Choose the best answer for each question.

**GIST** 

- 1. What could be another title for the reading?
  - a. Atlantis Sinks
  - b. Is Atlantis Real?
  - c. I Found Atlantis!

**SEQUENCE** 

- **2.** What happened after Robert Sarmast said he found Atlantis?
  - a. He wrote a book about his findings.
  - Richard Ellis said that Atlantis was not real.
  - c. He found out the structures were not man-made.

MAIN IDEA

- 3. What is the main idea of paragraph C?
  - a. Scientists believe Atlantis is just a story.
  - b. Explorers found a city under the sea near Morocco.
  - c. People have looked for Atlantis, but no one has found it.



The story of Atlantis was first written down in Plato's Dialogues in 360 B.C.

DETAIL

- 4. Why does Mark Adams believe Atlantis could be in Morocco?
  - a. He discovered the remains of houses in the ocean there.
  - b. He found colored stones similar to ones described by Plato.
  - c. He found a map that showed Atlantis's location in the Atlantic Ocean.

**PARAPHRASING** 

- **5.** In paragraph D, which sentence is closest in meaning to "there is not a piece of solid evidence" for a real Atlantis?
  - a. There is only one reason to believe the Atlantis story is true.
  - b. The story of Atlantis is made up of many small pieces.
  - c. There is nothing to make us believe the Atlantis story is true.

**SCANNING** 

**B.** Write short answers to the questions below. Use words from the passage for each answer.

Review	this
reading	skill
in Unit	

- 1. When did Plato write about Atlantis? \_\_\_\_\_
- 2. When did Robert Sarmast report finding the remains of a city?
- 3. What was the title of Mark Adams's book? \_\_\_\_\_
- **4.** Which author thinks Atlantis is just a story?

### Skimming

You skim when you look quickly at the whole reading to see what it is about. You do not read every word. Instead, look at the title, headings, photos, and captions. Read the first line of each paragraph, and quickly read the conclusion.

SKIMMING OR
SCANNING

A. Look at these reasons for reading. For each reason, should you skim or scan? Check (✓) the correct boxes.

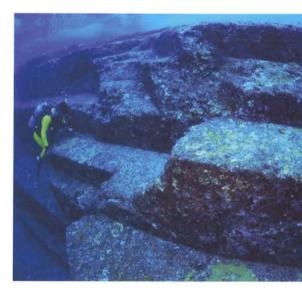
1.	to see if a story is funny or serious	
2.	to find the names of countries mentioned	
3.	to find a quote (" ") by a scientist	
4.	to see how the author feels about a topic	

### SKIMMING

- **B.** Quickly skim the passage below. What is it mainly about? Circle the correct option.
  - a. A diver who found Atlantis in the Pacific Ocean
  - b. A scientist who believes he has found a lost land near Japan
  - c. A strange structure that was found in a Japanese city

### The Lost Continent in the Pacific Ocean

People believe that thousands of years ago the lost continent of Mu sank because of an earthquake. Today, no one knows if there really was a place called Mu, or where it was. However, Professor Masaaki Kimura thinks he knows where the remains of Mu are. He believes they are near the Yonaguni Islands of Japan. Kimura thinks the strange structures he has found were made by people. Some other researchers don't think so. No one is sure, but the research continues.



Skim

Scan

A diver explores the strange steplike structures in the waters near the Yonaguni Islands.

CRITICAL THINKING Synthesizing Information	Which mystery do you think will be more difficult
to solve: Atlantis or 'Oumuamua? Why? N	ote your ideas below. Then discuss with a partner.
	No. South Subtraction on the Contract State Stat
·	

### VOCABULARY PRACTICE

### DEFINITIONS A. Read the information. Match each word in red with its definition.

Some people believe the Greek island of Santorini is the likely location for the **lost** city of Atlantis. The two are similar in several ways.

Plato described Atlantis as being in the shape of a circle. In the past, Santorini was also circular. However, the island was struck by earthquakes and nearly destroyed by a volcano, causing parts of the island to **sink**. There were also people living in cities on Santorini for thousands of years.



The Greek island of Santorini viewed from above

There are, however, important differences. First of all, the dates in Plato's writing do not match with events on Santorini. Plato also said Atlantis was in the Atlantic Ocean, but Santorini is in the Mediterranean Sea. And **finally**, the sizes of the two islands are very different. Atlantis was described as very large, but Santorini is small.

- 1. \_\_\_\_\_: lastly, in the end
- 2. \_\_\_\_\_: unable to be found
- 3. \_\_\_\_\_: suddenly hit
- **4.** \_\_\_\_\_: to move slowly downwards, often in water.

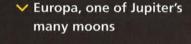
- COMPLETION B. Complete the sentences. Circle the correct options.
  - 1. Something **natural** is made / not made by humans.
  - 2. A piece of something is all / part of it.
  - 3. To find out the purpose of something, you should ask "Where?" / "Why?"
  - **4.** When you **report** something, you don't tell / tell others about it.

### WORD FORMS

C. Many verbs, such as sink and strike, have irregular past forms. Complete the sentences using the words in the box.

strike sink sank struck

- 1. Last night, large waves \_\_\_\_\_\_ the side of the ship.
- 2. If you drop coins in water, they \_\_\_
- 3. Earthquakes often \_\_\_\_\_\_ in countries along the Pacific.
- **4.** Sadly, their small boat \_\_\_\_\_\_ in the storm.



## MOON MYSTERY

### BEFORE YOU WATCH

PREVIEWING A. Read the information. The words in **bold** appear in the video. Complete the definitions with the correct form of each word.

> For many years, scientists have searched for life in space. Spacecrafts have been sent to every planet in the solar system, and robots have landed on the surfaces of Mars and Venus. So far, nothing has been found. Many believe, however, that the best places to look for life might not be planets at all. Europa—one of Jupiter's many moons—is thought to have conditions where life may exist. Whether it does or not remains a mystery for now.

- 1. If something \_\_\_\_\_\_, it stays alive.
- 2. The \_\_\_\_\_\_ of something is the outside part of it.
- 3. The \_\_\_\_\_\_ of a place include things like its temperature or weather.

### DISCUSSION

B. Why do you think scientists believe there might be life on Europa? What conditions might exist there? Note your ideas. Then discuss with a partner.

### WHILE YOU WATCH

20 Video

	Vatch the video. W fe? Choose the cor	The second secon	eve Europa is	a good place to look for
a		ocean beneath its sur	face	
		perature is similar to E		
	. It is a similar siz		artirs.	
C	. L It is a siffiliar siz	ze to cartris moon.		
DETAILS B. V	Vatch the video aga	ain. Complete the n	otes.	
Discovere in 1	ed by Galileo	Europa		Future missions may send a(n) 5 to Europa.
Slightly s	smaller than	Surface covered 3	in	Life has been found on  4 in similar conditions.
If scientists do f	ind life there, wha your ideas to a pa	t do you think it wil	l look like? N	the conditions on Europa. ote your ideas or draw a
VOCABULARY	REVIEW			
	the meanings of th y words you're not		/) the ones y	ou know. Look back at the
Reading A				
explore	☐ knock	☐ maybe	pass	
speed	strange	☐ technology*	thin	
Reading B				
☐ finally*	☐ lost	natural	☐ piece	
purpose	☐ report	sink	strike	
* Academic Word Lis	st			









# THE WORLD OF SPEED EATING

A Competitive eating—or speed eating—is **exactly** what its name suggests. Contestants<sup>1</sup> eat as much as they can, usually within a time limit. Eating competitions can involve **various** foods—pizza, pies, ice cream, chili peppers. They can also offer large prizes to the winners.

### The Biggest Competition

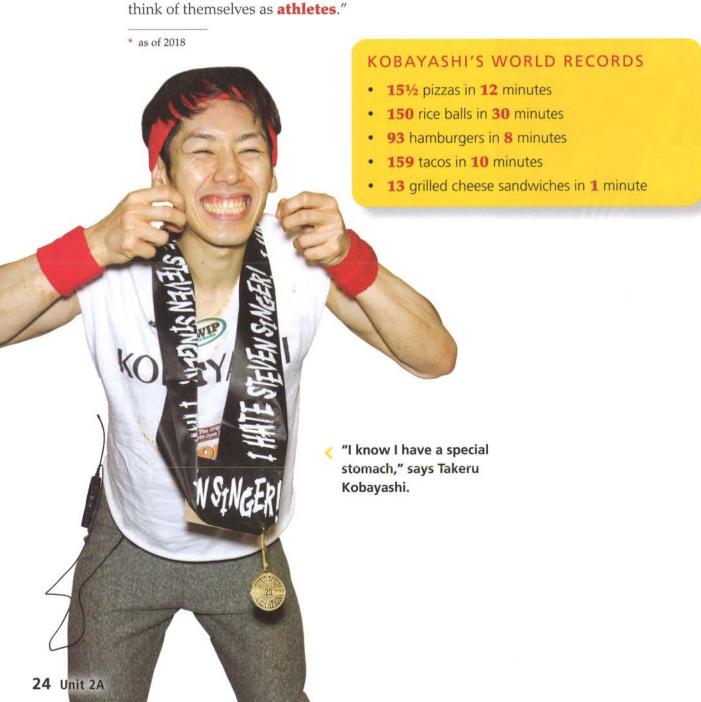
- B The world's largest competitive eating event is Nathan's Famous Hot Dog Eating Contest. The event is held every Fourth of July in Brooklyn, New York. According to legend,<sup>2</sup> this tradition began over a hundred years ago. Four immigrants<sup>3</sup> were arguing about who loved their new country the most. Finally, they worked out a way to decide. They would see who could eat the most of a famous American food—the hot dog. James Mullen, an Irish immigrant, won by eating 13 hot dogs in 12 minutes. Nathan's Fourth of July tradition was born.
  - 1 A **contestant** is someone who takes part in a competition.
  - 2 A legend is a traditional story that may or may not be true.
  - 3 An immigrant is someone who has left one country to live in another.

### **Eating Champions**

The current champion\* of the contest is Joey Chestnut. Chestnut—an American—also holds the world **record** for hot dog eating—74 in less than 10 minutes. That's just over 8 seconds per hot dog. For many years, the Nathan's Contest champion was Takeru Kobayashi from Japan. He is smaller and lighter than Chestnut, and doesn't look like an eating champion. However, he holds many world records for eating different types of food.

### **Bad Taste or Just Sport?**

D Not everybody thinks competitive eating is a good thing. It can be **unhealthy** for the contestants, and many people in the world are going hungry. Kobayashi first won the event in 2001 when he was 23 years old. So are eating competitions in bad taste? For competitive eaters, it's a sport like any other. As Kobayashi says, "Food fighters ... think of themselves as **athletes**."



### READING COMPREHENSION

### A. Choose the best answer for each question.

**GIST** 

1. What is the reading mainly about?

a. the history of hot dogs in the United States

b. the career of a famous competitive eater

c. eating competitions and the people who take part

**PURPOSE** 

2. What is the purpose of paragraph B?

 a. to give details about a famous competitive eating event

b. to explain how competitive eaters can eat so quickly

c. to describe the dangers of competitive eating

DETAIL

**3.** What is NOT true about Joey Chestnut?

- a. He is smaller than Takeru Kobayashi.
- b. He has won Nathan's Famous Hot Dog Eating Contest.
- He broke the world record for hot dog eating.

**PARAPHRASING** 

- **4.** In paragraph D, which word could replace *in bad taste*?
  - a. wrong
  - b. dangerous
  - c. exciting

INFERENCE

- 5. Which of the following would Takeru Kobayashi most likely say?
  - a. "Competitive eating is just a fun hobby for me. Winning isn't important."
  - b. "I see competitive eating as a sport, and I always try my best."
  - c. "Eating so much food is unhealthy. Eating competitions should be stopped."

SCANNING

**B.** Scan the passage for the names in the box. Match each person (a–c) with the sentence that describes them. Each person may be used more than once.

Review this reading skill in Unit 1A

- a. James Mullen
- b. Joey Chestnut
- c. Takeru Kobayashi
- 1. \_\_\_\_ helped start the tradition of hot dog eating contests.
- 2. \_\_\_\_ won the 2018 Nathan's Famous Hot Dog Eating Contest.
- 3. \_\_\_\_ was born in Ireland.
- **4.** \_\_\_\_ holds a record for eating hamburgers.



### Identifying the Parts of a Passage A reading passage can have several parts. Look at every part to get a complete understanding of the passage. This is very useful when previewing a passage or predicting what it contains. Photos and illustrations The title is a kind of heading. It tells show information visually. you what the whole text is about. THE FLOWER Subheadings above paragraphs tell you what they are about. Footnotes give definitions of difficult vocabulary. Maps show you Captions explain Sidebars give additional where in the world the pictures. information about the topic. a place is. A. Look back at Reading A. Which parts of a passage are used there? Check (1) the parts you can find. a title photos subheadings a map illustrations a sidebar captions footnotes SCANNING B. Look back at the reading again. Answer the guestions below. 1. What is the title of the reading? 2. How many paragraphs are there in the main text? 3. Does every photo have a caption? 4. How many footnotes are there? 5. Whose records are in the sidebar?

CRITICAL THINKING Justifying Opinions

Discuss with a partner. The author asks if some eating contests are "in bad taste." What do you think? Would you ever enter one?

### VOCABULARY PRACTICE

### DEFINITIONS A. Complete the information. Circle the correct options.

- 1. An example of an athlete is a singer I soccer player.
- 2. People sometimes **argue** when they agree / disagree about something.
- 3. When you work out something, you find the answer / tell a story.
- **4.** If something is **unhealthy**, it is bad / good for you.

### COMPLETION B. Complete the information using the words in the box. Two words are extra.

argue	athlete	exactly	records	tradition	various
an Sone	EL CARLE CC	Chartery	1000140		

Every year, the small Czech town of Vizovice holds a festival to celebrate the plums grown in the area. The festival has a long 1\_\_\_\_\_\_, recently celebrating its 50th year. One of its most popular events is a plum dumpling eating contest.

In 2017, American Patrick Bertoletti won the contest. He ate <sup>2</sup>\_\_\_\_\_\_

198 dumplings in one hour. Bertoletti has held <sup>3</sup>\_\_\_\_\_\_ other world <sup>4</sup>\_\_\_\_\_ in speed eating. He won the 2015 Wing Bowl when he ate an amazing 444 chicken wings in just 26 minutes.



Patrick Bertoletti shows off his Wing Bowl championship ring after winning the 2015 event.

### COLLOCATIONS

**C.** The prepositions in the box can be used with the verb **argue**. Complete the sentences using the correct prepositions.

about for with

- 1. The people in the eating contest argued \_\_\_\_\_\_ the rules.
- 2. The customer argued \_\_\_\_\_\_ the server because his food came out cold.
- **3.** The kitchen workers argued \_\_\_\_\_\_ more money because they make very little.



HOT Carolina Reaper 1.5-2 million SHU

> **Trinidad Moruga Scorpion** 1,463,700 SHU

Naga Jolokia 1,041,427 SHU

Dorset Naga 923,000 SHU

Tabasco 190,542 SHU



### BEFORE YOU READ

- TRUE OR FALSE A. Look at the information above. Is each sentence below true or false? Circle T (true) or F (false).
  - 1. The Trinidad Moruga Scorpion is hotter than the Dorset Naga.
  - 2. A chili pepper that measures 5,000 SHU is very hot.
  - 3. Tabasco peppers are hotter than jalapeños.
  - 4. Sweet bell peppers have a very high SHU level.

### SCANNING

Review this reading skill in Unit 1A

B. In Assam, India, a woman named Anandita Dutta Tamuly likes to eat very hot chilies. Quickly scan the passage on the next page. Which of the chilies above is she famous for eating?

### THE HOTTEST CHILIES

- A You may have experienced the feeling. Your mouth feels like it's on fire. Your eyes start to water. You just ate one of nature's hottest foods—the chili pepper!
- B Chili peppers, also called chilies, are found in **dishes** around the world. They are in dishes like Indian curries, Thai tom yum soup, and Mexican enchiladas. Chilies come from the capsicum **plant**. They are "hot" because they **contain** something called *capsaicin*.
- Capsaicin is very good for your **health**. It helps you **breathe** better, and it may even help keep you **fit**. Capsaicin makes you feel less **hungry**. It also makes your body burn more calories.<sup>1</sup>
- D We can measure the heat of chilies in units called Scoville heat units (SHU). The world's hottest chili is the Carolina Reaper. It sometimes measures up to 2 million SHU!
- E Eating a hot chili can be **painful**, but some people love to eat them. Anandita Dutta Tamuly, a woman from Assam, India, became famous for eating chilies. She ate 51 hot peppers in just two minutes! The peppers were Naga Jolokia ("ghost peppers"). They grow in Assam and are the third-hottest chilies in the world.
- "I found eating chilies was a great way to stay healthy," says Tamuly. She began eating chilies when she was a child. She eats chilies when she is sick, too. "Every time I have a cold or flu, I just eat some chilies and I feel better. To be honest, I barely notice them now."



Anandita Dutta Tamuly eats a tray full of Naga Jolokia, or "ghost peppers."

<sup>1</sup> Calories are units used to measure the energy value of food.

### READING COMPREHENSION

### A. Choose the best answer for each question.

**GIST** 

- 1. What is the reading mainly about?
  - a. how to eat very hot chili peppers
  - b. facts about hot chili peppers
  - c. ideas for cooking using chili peppers

**PURPOSE** 

- 2. What is the purpose of paragraph C?
  - a. to explain why eating chilies is painful
  - b. to show the effect of chilies on the mind
  - c. to explain how chilies are good for you

DETAIL

- 3. How is capsaicin good for your health?
  - a. It helps you breathe better.
  - b. It makes you feel happier.
  - c. It makes you feel hungrier.

DETAIL

- **4.** Which of the following is NOT true about Anandita Dutta Tamuly?
  - a. She is famous for eating Carolina Reaper chilies.
  - b. She often eats chilies when she feels sick.
  - c. She started eating chilies when she was a child.



Many types of chilies turn from green to red as they grow.

### PARAPHRASING

- **5.** In paragraph F, the phrase *I barely notice them* can be replaced with \_\_\_\_\_
  - a. I usually don't eat hot chilies anymore.
  - b. I feel the heat of the chilies even more.
  - c. I almost don't feel the heat of the chilies.

- MATCHING B. Look back at the information in Reading B. Match each pepper (a–d) with the correct description.
  - a. Sweet Bell Pepper
- b. Naga Jolokia
- c. Tabasco
- d. Carolina Reaper

- 1. \_\_\_\_ is the hottest chili in the world.
- 2. \_\_\_\_ is around 3 times the SHU of Thai Chili.
- 3. \_\_\_\_ is not as hot as jalapeño.
- 4. \_\_\_\_ is also known as "ghost pepper."

### Pronoun Reference

Pronouns are words such as he, she, it, they, and them, and usually refer to a noun earlier in a passage. To understand a passage, it is important to know what each pronoun refers to.

Sara bought chilies. She put them in my favorite curry. It was too hot to eat!

- REFERENCE A. In each sentence, draw an arrow from the pronoun in **bold** to the word it refers to, as in the examples above.
  - 1. The jalapeño is a popular chili from Mexico. It takes its name from Jalapa, in Veracruz.
  - 2. My brother and sister asked my mother not to put chilies in the food **she** made.
  - 3. Chilies have been eaten in the Americas for thousands of years. Nowadays, they are popular all around the world.
  - 4. Indians put chili peppers in many of their dishes. They often add them to curries.

- REFERENCE B. Look back at Reading B. Find the following sentences in the passage. Write the word each pronoun in bold refers to.
  - 1. Your mouth feels like it's on fire. (paragraph A)
  - 2. It helps you breathe better. (paragraph C)
  - **3.** She began eating chilies when **she** was a child. (paragraph F)
  - 4. To be honest, I barely notice them now. (paragraph F)



People in the Americas were eating chilies as early as 7500 B.C.

it =		
It =		
she =		

them	=		

### CRITICAL THINKING Applying Ideas

- Work with a partner. Think of four famous spicy foods. List them below.
- Now rank the foods in your list from 1-4 (1 = the hottest).

### VOCABULARY PRACTICE

### COMPLETION A. Complete the information using the words in the box.

		contains	dishes	health	painful	plants		
		They may not cactus 1very good for y nopalitos—you been eaten for Eating cactus h popular outsid tasty 3 Here is one was 1. Clean and consumption of the cactus. Then 1. The cactus 5. Cook the can and dries up	your 2 ca your 2 ung stems of hundreds of has recently e of Mexico that ay to cook the ut up the steethe sharp pa ome oil in a p add some sectus until al	n be eaten a	nd are Mexico, —have  re many stems.  ut ant! That the the pan. e liquid.		and cleans cactus Mexican market.	
DEFINITIONS		Match each v  1. plant  2. hungry  3. breathe  4. fit		<ul><li>a. hea</li><li>b. nee</li><li>c. a liv</li><li>d. to t</li></ul>	Ithy and strong ding food ving thing that ake air in and	usually grov out	vs in the ground	
COLLOCATIONS	C.	cut less  1. Looking at 2. The chef's k 3. Failing my for next one.	son me the old pho	emory to brought b	pack a painful _ a painful	or		



### BEFORE YOU WATCH

- PREVIEWING A. Read the information. The words in **bold** appear in the video. Match each word with the type of food it describes.
  - 1. sweet •
- · a. potato chips
- 2. salty •
- b. candy
- 3. sour •
- · c. dark chocolate
- 4. bitter •
- d. lime

**PREVIEWING** 

B. Work with a partner. List three more foods for each category in activity A.

### WHILE YOU WATCH

GIST	A.	Watch the video. What senses do we use when we taste food? Note your answers below.			
DETAILS	В.	Watch the video again. Complete the sentences with the words and phrases (a–d) in the box. Each option can be used more than once.			
		a. more bitter	b. saltier	c. more sour	d. sweeter
		1. Red food tastes _		1. White food taste	S
		<ol> <li>Green food tastes</li> <li>Food on a round plate tastes</li> <li>Food on a square plate tastes</li> </ol>			
	mbe	er the meanings of t		Check (✔) the ones	s you know. Look back at the
Reading /		any words you're no	t sure ot.		
argue		athlete	☐ exactl	v 🔲 recor	rd
☐ tradition	on*	unhealthy	☐ variou		
Reading I	3				
☐ breath	e	☐ contain	dish	☐ fit	
☐ health		hungry	☐ painfu	ul 🗌 plant	t
* Academic	Word	List			

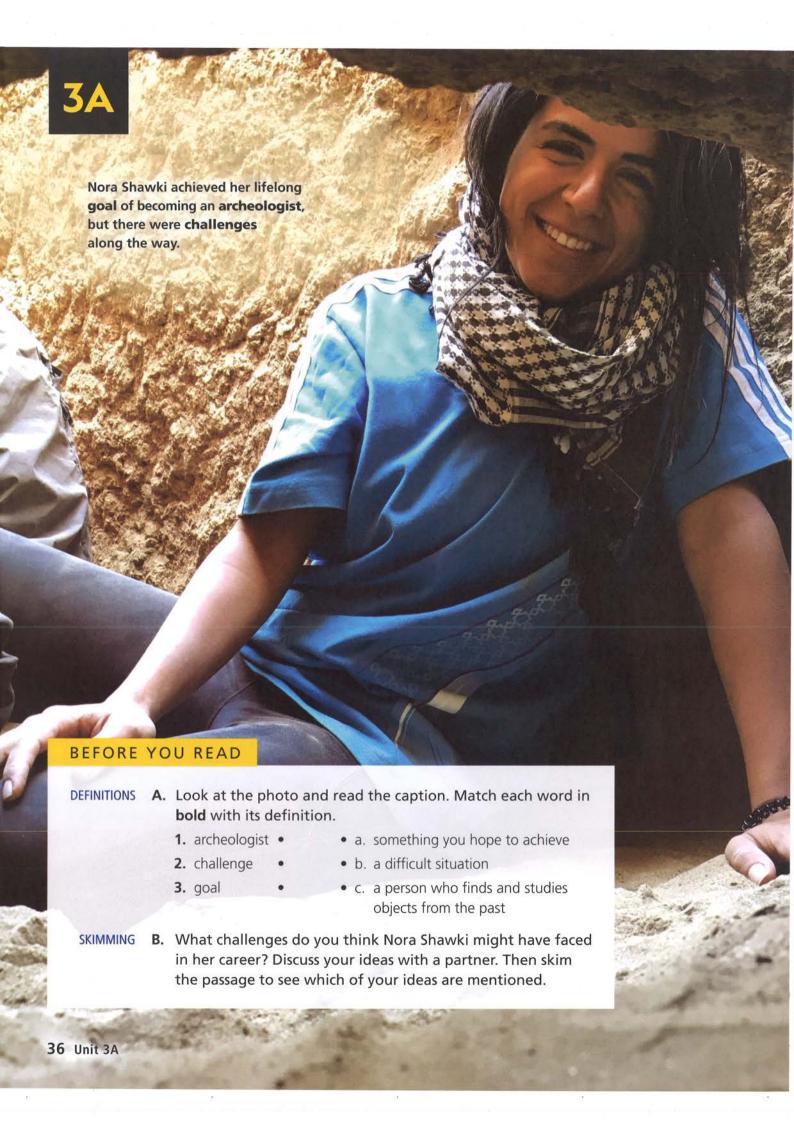
# COOL JOBS

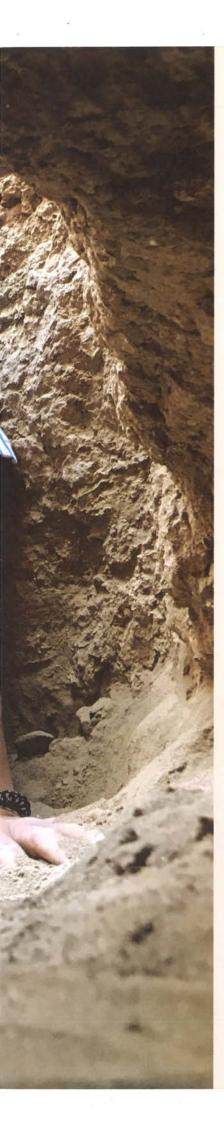
An astronomer prepares for work at the Mount Wilson Observatory, United States.

### WARM UP

Discuss these questions with a partner.

- 1. Look at the photo and read the caption. What is the person's job?
- 2. Do you think this job is interesting? Why or why not?





## DIGGING FOR THE PAST

by Nora Shawki

- A When I was in third grade, I watched a video that recreated the discovery of King Tutankhamen's tomb. I remember Howard Carter<sup>1</sup> peering through a narrow hole in the tomb with a candle. A workman asked what he could see: "Wonderful things!" Carter said. From that moment, I knew what I wanted to do with my life.
- B Today, I'm **lucky** to work as an archeologist. I study the lives of people who lived in Egypt's Nile Delta. It's exciting work. Sometimes you find something that was buried three thousand years ago. Holding a piece of **history** is an **amazing** feeling.
- C So I **decided** what I wanted to be at the age of nine, and I made it happen. Seems easy, right? Not quite! The road wasn't easy. I did my studies—university, then a PhD. But along the way I was told many things: I was too young, I wasn't qualified, I should **get married** and have kids. I also needed money, so I applied for six grants.<sup>2</sup> The first five replies I got said *no*. Six months later, the last reply came: This time it was *yes*. Finally, I could start my own excavation.<sup>3</sup>
- D For anyone thinking about a **career**, I would say: Never give up. If you want to do something, keep trying. If people tell you no, use that—it will push you. At the beginning, it **hurts**. But the next no hurts a little less. It makes you stronger and actually helps you.
- E Second, focus on your goals. And I stress *yours*. You don't have to **follow** other people. If they say something has never been done, make it happen. You may be the first to do it! There are always challenges, but you overcome them in the end.

<sup>1</sup> Howard Carter was a British archeologist who became famous for discovering the tomb of Tutankhamen in 1922.

<sup>2</sup> A grant is money given by a government or organization for a special project.

<sup>3</sup> An excavation involves removing earth to search for very old objects buried in the ground.

#### READING COMPREHENSION

#### A. Choose the best answer for each question.

**1.** What could be another title for the reading?

- a. Following a Childhood Dream
- b. A Day in the Life of an Archeologist
- c. The Nile Delta's Hidden Treasures

#### **PURPOSE 2.** What is the purpose of paragraph A?

- a. to explain the challenges Shawki faced at school
- b. to describe what was found inside Tutankhamen's tomb
- c. to explain how Shawki became interested in archeology

#### **SEQUENCE 3.** Which of the following happened first?

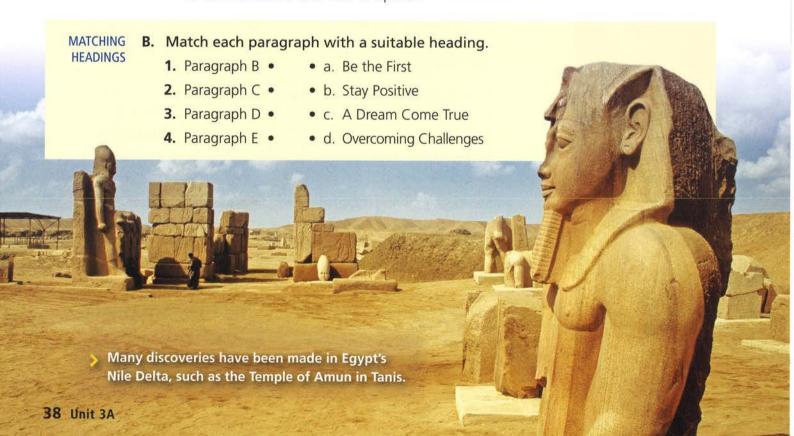
- a. Shawki applied for a grant.
- b. Shawki went to university.
- c. Shawki decided to be an archeologist.

#### **4.** Which of the following is NOT given as a challenge Shawki faced?

- a. Others didn't agree with her career choice.
- b. She needed to take care of her family.
- c. It was difficult to get money for excavations.

#### VOCABULARY 5. In paragraph E, what does stress mean?

- a. a feeling you have when your life is difficult
- b. to make it clear that something is important
- c. to introduce a new idea or opinion



#### Dealing with New Vocabulary (1)—Using a Dictionary

Compare your answers with a partner and explain your reasons.

When you look up a new word in a dictionary, there is often more than one definition. To find the correct definition, first identify its part of speech (e.g., noun, verb, adjective, adverb). Then look at the other words in the sentence to help you find the correct definition.

	997 7. JP 7. JP 10. JP
MATCHING	<ul> <li>A. Identify the part of speech of the word past in each sentence below. Then match each sentence to the correct definition.</li> <li>1. Archeologists study the past.</li> <li>a. (adj) previous</li> <li>b. (prep) after a certain time</li> <li>J was away this past weekend.</li> <li>c. (prep) beyond a certain place</li> <li>d. (n) the time before now</li> </ul>
COMPLETION	<ul> <li>B. Circle the part of speech for each <u>underlined</u> word. Then look up the word in a dictionary, and write down its definition.</li> <li>1. I <u>study</u> the lives of people who lived in Egypt's Nile Delta. (paragraph B) part of speech: <b>noun / verb</b> definition:</li> </ul>
	<ul> <li>2. I did my studies. (paragraph C) part of speech: noun / verb definition:</li></ul>
	part of speech: <b>noun / verb</b> definition:
	<b>4.</b> Second, <u>focus</u> on your goals. (paragraph E) part of speech: <b>noun / verb</b> definition:
CRITICAL TH	INKING Evaluating Advice
Rate each	piece of career advice below 1–5 (5 = great advice, 1 = bad advice).
b. It's impo	ortant to get a job at a big company.
d. Qualific	sten to other people. Only your opinion matters.  ations aren't important if you have talent.
	it way to be successful is to start your own business  jobs rarely happen. Aim for something more realistic

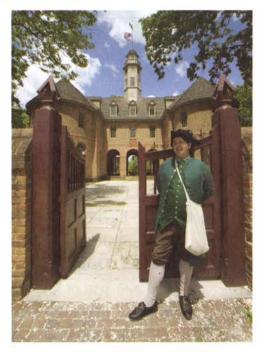
#### VOCABULARY PRACTICE

#### COMPLETION A. Complete the information using the words in the box.

career	decide	follow	history	lucky

Do you love 1\_\_\_\_\_? If so, there are some interesting <sup>2</sup>\_\_\_\_\_\_ paths that you can <sup>3</sup>\_\_\_\_\_. Some people work as archeologists or historians. Others might 4\_\_\_\_\_ to work as teachers, librarians, tour guides, or researchers.

Another interesting job is that of a "living historian." Living historians work as actors at historical sites. They wear traditional clothes and speak in the language from that time. Visitors who are 5\_\_\_\_\_ enough to speak to a living historian can ask them questions about life at that time.

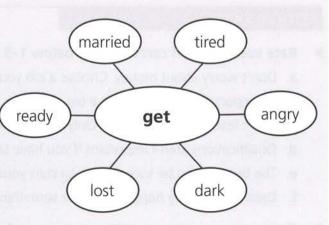


A living historian wears 18th-century clothing in Virginia, United States.

#### DEFINITIONS

- B. Choose the correct word or phrase to complete each sentence below.
  - 1. If something hurts you badly, you may cry / smile.
  - 2. If something is **amazing**, it is very bad or boring I good or surprising.
  - 3. When you get married, you have a husband or wife I son or daughter.

- COLLOCATIONS C. The adjectives below can be used with the verb get. Complete the sentences using the words in the diagram.
  - 1. It's easy to get \_\_\_\_\_ in the dark.
  - 2. We need to get \_\_ to leave. Class starts in 10 minutes.
  - 3. I get \_\_\_\_\_ when I work all day without a break.
  - 4. If I feel like I'm getting \_\_\_\_\_, I take some deep breaths and count to 10.



#### BEFORE YOU READ

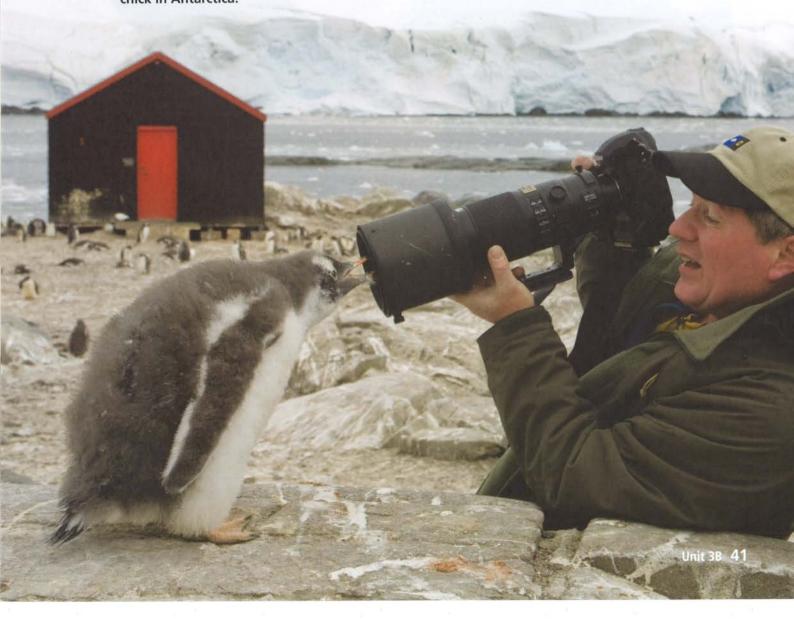
- DISCUSSION A. Look at the photo and read the caption. Then discuss these questions with a partner.
  - 1. What kinds of things do you usually take photos of?
  - 2. Do you think a photographer's job is easy?

#### SKIMMING

Review this reading skill in Unit 1B

- B. Skim the interview on pages 42-43. Then write each interview question (a-d) above its answer in the passage.
  - a. I want to be a photographer. Do you have any advice for me?
  - b. What kind of photographers is National Geographic looking for?
  - c. Is it difficult to get a job as a photographer today?
  - d. How did you become a National Geographic photographer?

National Geographic photographer Joel Sartore photographs an Adélie penguin chick in Antarctica.







### An interview with Joel Sartore

А	Joel Sartore is a writer, teacher, and photographer. His words—and beautiful images—show his love of photography and of the natural world. He was National Geographic's 2018 Explorer of the Year.
	Question 1:
В	My first job was for a newspaper. After a few years there, I met a <i>National Geographic</i> photographer. He liked my photos and said I should send some to the magazine. So I did. That led to a one-day job. And that led to a nine-day job, and so on.
	Question 2:
C	To get into <i>National Geographic</i> , you have to give them something they don't have. It's not <b>enough</b> just to be a great photographer. You also have to be a scientist, for example, or be able to dive under sea ice, or <b>spend</b> maybe <b>several</b> days in a tree.
	Question 3:
D	It's now more difficult to work for magazines. Technology makes it easy to take good pictures, which means there are more photos and photographers. Also, the Web is full of photos from all around the world that are <b>free</b> , or <b>cost</b> very little. These photos are often good enough to be put in books and magazines that once <b>paid</b> for photographers and their photos.
	Question 4:
Ē	Advice? Well, work hard. Be passionate <sup>1</sup> about every <b>project</b> you work on. Take lots of pictures in different <b>situations</b> . Look at others' photos thoughtfully and learn from them. And be curious <sup>2</sup> about life. There's something to photograph everywhere.

F But be a photographer for the right reasons. If you do it for the money, you probably won't really be happy. Do you want to make the world a better place, or make people see things in a different way? If so, you'll

1 A passionate person has very strong feelings about something.

enjoy the work much more.

2 If you are curious about something, you want to know more about it.

#### READING COMPREHENSION

#### A. Choose the best answer for each question.

#### **VOCABULARY**

- 1. In the title "Getting the Shot," what does the word shot mean?
  - a. job
- b. photo
- c. magazine

#### DETAIL

- 2. Which of the following sentences about Joel Sartore is NOT true?
  - a. His first job was with National Geographic.
  - b. He once worked for a newspaper.
  - c. He is also a writer.

#### MAIN IDEA

- 3. What was Sartore's main point in his answer to Ouestion 3?
  - a. Photographers need to use more technology.
  - b. Putting your photos online can lead to other iobs.
  - c. It's not easy to get paid work as a photographer these days.



In 2015, some of Sartore's photos were projected onto the Empire State Building, New York.

#### **PARAPHRASING**

- 4. In paragraph E, the sentence There's something to photograph everywhere is closest in meaning to .
  - a. With new technology, anyone can be a photographer.
  - b. Take more photos than you think you will need.
  - c. You can find interesting things in many different places.

#### MAIN IDFA

- 5. What is the main idea of paragraph F?
  - a. You should try to see people in different ways.
  - b. If you work hard, you can make money as a photographer.
  - c. You should ask yourself why you want to be a photographer.

#### **PRONOUN** REFERENCE

#### B. Look back at Reading B. What does each pronoun refer to? Circle the correct option.



- 1. there (paragraph B)
  - a. at the newspaper
- b. at the magazine
- 2. some (paragraph B)
  - a. Joel Sartore's photos
- b. National Geographic's photos
- 3. them (paragraph E)
  - a. different situations
- b. other people's photos
- 4. it (paragraph F)
  - a. become a photographer b. take a photograph

#### **Understanding Suffixes**

Suffix

A suffix is one or more letters that can be added to the end of a word to make a new word. The suffix usually changes the word to a different form, such as from a noun to an adjective. Knowing some of the most common suffixes can help you guess the meaning of unfamiliar words as you read. Here are some examples with their usual meanings.

**Examples** 

-ful	-or / -ist = person who does / -fully = full of relating to	painter, actor, guitarist colorful, playful, playfully musical, natural
SCANNING	A. Look back at the first par the suffix -er.	agraph of Reading B. Find and circle four words with
COMPLETION	suffix from the box above	ading B below, underline any words that contain a e. Then write a simple definition of each one.  Il images—show his love of photography and the
		graphic, you have to give them something they don't have.
	3. Look at others' photos the	houghtfully and learn from them.
DEFINITIONS		"Digging for the Past." Find and write a word that w. Then write a sentence with each word.
	<b>1.</b> -ful (paragraph A)	<b>2.</b> -ist (paragraph B)
CRITICAL TH	INKING Personalizing	
	ee questions you would like to	
5000 F		? ?
3		?

#### VOCABULARY PRACTICE

#### COMPLETION A. Complete the information using the words in the box.

		enough project several situation spent
		Stories Behind the Shots
		Joel Sartore takes studio photos of animals as part of a 1 called the Photo Ark. The aim is to raise awareness of endangered species. Sartore usually takes 2 images of the same animal, but things don't always go according to plan.
		Joel Sartore took this photo of an ocelot at a zoo in the United States. He  Joel Sartore took this photo of an ocelot at a zoo in the United States. He  Joel Sartore took this photo of an ocelot at a zoo in the United States. He  Joel Sartore took this photo of an ocelot at a zoo in the United States. He  Joel Sartore took this photo of an ocelot at a zoo in the United States. He  Joel Sartore took this photo of an ocelot at a zoo in the United States. He  Joel Sartore took this photo of an ocelot at a zoo in the United States. He  Joel Sartore took this photo of an ocelot at a zoo in the United States. He  Joel Sartore took this photo of an ocelot at a zoo in the United States. He  Joel Sartore took this photo of an ocelot at a zoo in the United States. He  Joel Sartore took this photo shoot with the animal, but getting the shot was not easy. "They hardly ever hold still," says  Sartore. "So I really had to act quickly."  Many animals will stand still only long  Long to get food. After they eat, the photo shoot is over.
		Behind this image is another great story.  At an aquarium, Sartore came across a very angry frog. While he tried to take a photo of it, it tried to bite him. He never thought he would be in a   ——————————————————————————————————
DEFINITIONS	В.	<ul> <li>Match the two parts of each definition.</li> <li>1. When you pay for something,</li> <li>a. it is expensive.</li> <li>b. you don't need to give money for it.</li> <li>3. If something is free,</li> <li>c. you give money for it.</li> </ul>
WORD FORMS	C.	The verbs <b>pay</b> , <b>cost</b> , and <b>spend</b> have irregular past tense forms. Write the past tense form of each verb in the chart below. Then complete the sentences using the correct words.
		pay → cost → spend →
		1. I in cash for my new camera.
		2. It doesn't much to take a photography class.
		3. My parents a lot of money on their new car.



#### BEFORE YOU WATCH

PREVIEWING A. Read the information. The words in **bold** appear in the video. Match the correct form of each word with its definition.

Since 1991, Canine Assistants has **trained** over 1,500 dogs. These "super-dogs" learn more than just tricks. Once their **training** is complete, the dogs will be given to people who need help in their daily lives. These dogs have an important job to do and many things to learn. It is the animal **trainers**' job to teach them to do it.

1	(v) to teach now to do a Job
2	(n) someone who teaches others how to do a job
3	(n) the process of learning how to do a job

PREDICTING B. What do you think the dogs in the video learn to do? Check (✓) your ideas from the skills below.

the skills below.		
pick up things	all the police	turn lights on
run in a race	open/close doors	be comfortable with people
find help	drive a car	swim
buy groceries	use a phone	get along with other animals

				Match	D P	
GIST A. W	atch the video. Che	eck your ideas in	Before You V	vatti	I D.	
	/atch the video agai ne is extra.	in. Complete the	sentences us	ing t	he phrases	in the box
	a. are given food	b. are take the cam		C.	train in the	puppy roor
	d. want to help their owners	e. find eve frighten		f.	push a larg	ge button
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# SHIPWRECKS

A diver investigates the wreck of a sailing boat off the coast of Egypt.

#### WARM UP

## Discuss these questions with a partner.

- 1. Do you know about any famous shipwrecks?
- 2. What do you think happened to the ship in the photo?