# **Scope and Sequence - Impact 1**









1			
Life	in	the	City
p. 8			_

2 Amazing Jobs p. 24

Secrets of the Dark

# 4 Living Together

			p. 42		
THEME	Exploring your city or town	Unusual and interesting careers	The world at night	Animal and human interaction	
VOCABULARY STRATEGIES	· Prefix <i>un</i> - · Use context	· Suffixes -er, -or, and -ist · Identify word parts (suffixes)	Compound words     Use a dictionary: Most common meaning	· Prefix <i>mis</i> - · Identify collocations	
SPEAKING STRATEGY	Active listening	Extending the conversation	Asking for help and helping with schoolwork	Asking for and giving reasons	
GRAMMAR	Simple present: Talking about facts I live near the High Line.  In and on: Expressing location Lion City is in eastern China.	Simple-present questions and answers: Talking about routines  Do pastry chefs work every day? Yes, they do. / No, they don't.  Possessives: Showing ownership  This dentist's job isn't done in an office.	Present progressive: Saying what is happening now While I'm reading in bed at night in Mexico, my friend Akiko is reading at school in Japan!  At, on, and in: Saying when things happen at eight o'clock, on Monday(s), in the winter	Modals: Describing obligation and advice  We have to protect rhinos.  We shouldn't ignore the rhino problem.  Modals: Describing ability in present and past  What can we do about it?  How could they avoid cars?	
READING	A New Type of Park	Adventures Near and Far	In the Dark of the Ocean	Four-Legged Heroes	
READING STRATEGY	Make predictions	Compare and contrast	Scan the text	Identify problems and solutions	
VIDEO	Mission Re-Wild	Searching for Life in Iceland's Fissures	What Glows Beneath	The Elephant Whisperers	
	Genre: <b>Descriptive paragraph</b>	Genre: <b>Descriptive paragraph</b>	Genre: Descriptive paragraph	Genre: Descriptive paragraph	
WRITING	Focus: Use adjectives	Focus: Identify and include elements of a paragraph	Focus: Use sensory writing	Focus: Proofread	
	Explore Your World	Do What You Love	Understand and Protect	Start Small	
MISSION	National Geographic Explorer: <b>Daniel Raven-Ellison</b> , Guerilla Geographer	National Geographic Explorer: <b>Guillermo de Anda</b> , Underwater Archaeologist	National Geographic Explorer: <b>David Gruber</b> , Marine Biologist	National Geographic Explorer: <b>Amy Dickman</b> , Animal Conservationist	
RONUNCIATION	Syllables and stress	Intonation in questions	Present progressive: Stress of the verb <i>be</i>	Can and can't	
EXPRESS	Creative Expression: <b>Travel revie</b> Gondola Tours of Venice	W	Creative Expression: <b>Graphic story</b> Sleeping with a Lion		
YOURSELF	Making connections: Unusual pla	aces and unusual jobs	Making connections: Interactions between humans and animals at night		





Mix and Mash





5
<b>What We Wear</b>
p. 76

Making connections: Fashion mash-ups

p. 92

6

7 Cool Apps and Gadgets

Into the Past p. 126

μ. 1

Making connections: Past, present, and future technology

			p. 110	
THEME	Clothing and accessories throughout history	Mash-ups	Useful and interesting technology	Exploring the distant past
VOCABULARY STRATEGIES	· Prefix <i>re</i> - · Use a dictionary: Pronunciation	· Multiple-meaning words · Use context: Examples	· Suffix -ible · Identify parts of speech	· Suffix -ful · Context clues: Definitions and examples
SPEAKING STRATEGY	Asking for opinions; Agreeing and disagreeing	Clarifying a point	Making and responding to requests	Talking about likes and dislikes
GRAMMAR	Simple past: Saying what happened Ancient Greek women preferred golden hair to dark hair.  Simple past: Saying what happened Doctors wore special protective suits.	Adjectives: Comparing two or more things  Underwater hockey is more difficult than field hockey.  Count and noncount nouns:  Talking about amounts  Some meals are a mix of food from different cultures.	Superlatives: Talking about extremes The newest version of this game is going to be awesome.  Will and going to: Talking about the future People won't talk to each other on smartphones anymore.	Present perfect: Describing a past action that still continues Games have always been a popular activity.  There + to be: Expressing existence at different points in time There have always been sun celebrations around the world.
READING	Jewelry Talks	A Feast for the Eyes	Thinking Outside the Box	Growing Up: Then and Now
READING STRATEGY	Make a personal connection	Visualize	Identify main idea and details	Identify cause and effect
VIDEO	What to Wear	What's in a Mash-Up?	From Gadgets to Apps	A Journey Back in Time
WRITING	Genre: <b>Descriptive paragraph</b> Focus: Publish	Genre: Paragraph of exemplification  Focus: Introduce examples	Genre: <b>Product review</b> Focus: Use examples	Genre: Classification paragraph  Focus: Write a concluding sentence
	Learn to Adapt	Be Unique	Always Keep Learning	Understand the Past
MISSION	National Geographic Explorer: <b>Andrés Ruzo</b> , Geoscientist	National Geographic Explorer: <b>Josh Ponte</b> , Musical Explorer/ Filmmaker	National Geographic Explorer: <b>Manu Prakash</b> , Biophysicist	National Geographic Explorer: <b>Alberto Nava Blank</b> , Underwater Cave Explorer/ Cartographer
PRONUNCIATION	The -ed ending	Linking: Consonant + vowel sounds	The two-vowel rule	The schwa (/ə/) sound
EXPRESS YOURSELF	det Steampunkeu		Creative Expression: <b>Letter for a</b> <i>Transportation of Tomorrow</i>	a time capsule





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What would be difficult about living without sunlight for two months every year? Discuss.

Then listen and read. TR: 32

and night. But for two months each winter in northern Norway, it's dark for 20 hours a day. There is no **sunrise** or **sunset** because the sun never gets above the **horizon**.

Would you like to live in **darkness** for this long? It may seem difficult, but many Norwegians love the beautiful colors of these

For most of us, the days are divided into day months. To the **south** are the red and gold colors of the horizon. To the **north**, the sky is a magnificent blue. Even the moon and stars look blue. In the towns, streetlights shine like little yellow diamonds.

> People do need light to be healthy and happy. Since they don't have much daylight during this time of the year, Norwegians

exercise and eat foods with vitamins A and D. nutrients people normally get from being in the are spending time with friends in cafés and sun. And darkness doesn't stop Norwegians from having a good time. Each winter, people are skiing on hills and skating on ponds that are **lit up**. Some people are dogsledding (with **headlights**, of course!). Others are going to

film and music **festivals**. And other people restaurants. Of course, not everyone is so active in the dark months. Many people are just **going to sleep** a little earlier until the sun returns in the spring.

In the town of Longyearbyen, in northern Norway, there's no sunlight from November to January. However, the sun doesn't set from the end of April to the end of August.

- 2 Learn new words. Listen and repeat. TR: 33
- **3 Work in pairs.** What would you like about living in the dark for two months? What wouldn't you like? Write three things for each. Compare your list with your partner's.

Read and write the words from the list. Make any necessary changes.

active	dark	darkness	festival	go to sleep		
headlight	light up	south	sunrise	sunset		
Light and		are two	things we don't of	ten think about. This is		
because we can h	ave light any ti	me at night. Thank	s to electric lights,	we're able to do what		
we need to at nigh	nt. We		_ because we're ti	red, not just because		
it's "Having all this energy to be able to have light at night is						
a really new thing for humans," says scientist David Gruber. Until the nineteenth century,						
people didn't have	e lights like we	do today. The light	of day came from	the sun, as it does now.		
But at night, only	the light of the	moon and the stars	3	the sky.		
People got up at $\_$		and w	/ere	all day.		
Then after		they went t	o bed.			

Learn new words. Listen for these words. Match each word to its definition. Then listen and repeat. TR: 34 and 35

daylight	healthy	streetlight
		1. a light near a road
		2. not sick
		3. light from the sun

- Choose an activity.
  - 1. Work independently. Observe an animal at night. What do you notice? What is surprising? Write your findings. Share them with the class.
  - 2. Work in pairs. Imagine you lived hundreds of years ago. How was your life at night different from your life at night now? List at least five examples.
  - 3. Work in groups. When you don't have electric light, what can you use to help you see in the dark? List three things. Choose one thing from your list and make an advertisement for it. Present your ad to the class.

# **SPEAKING STRATEGY TR: 36**

### Asking for help with schoolwork

### **Helping with schoolwork**

What does *nocturnal* mean?

How do you pronounce it?

How do you spell it?

It means active at night.

I'm not sure. I think you say nock-tur-null.

It's spelled n-o-c-t-u-r-n-a-l.

- **Listen.** How do the speakers ask for help and respond? Write the phrases you hear. TR: 37
- Read and complete the dialogue.

Mae:	This video about carnivorous plants is really cool.			
Hwan:				
Mae:		things that eat meat.		
	This one is called a <i>Nepenthes</i> .	-		
Hwan:	What?			

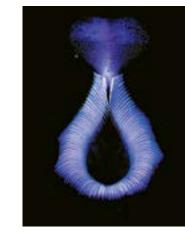
\_\_\_\_\_ Let's look it up. Mae: *N-e-p-e-n-t-h-e-s*. Another name is *pitcher plant*. It eats anthropods.

Hwan: Anthro... what? \_\_\_\_\_

\_\_\_\_\_ an-throw-pod. You know, Mae:

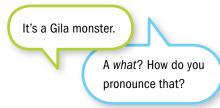
insects, spiders, and things like that. Insects see the plant's light and go to it. Then they fall inside and die! That's how the plant eats them.

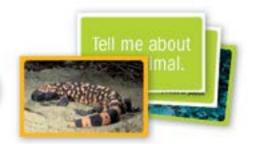
Hwan: Amazing!



A glowing pitcher plant

Work in pairs. Talk about the animals on the cards. Help your partner to spell, pronounce, and learn more about each animal.





**Work in groups.** Think of a situation where you wanted to ask for help with schoolwork but didn't. Why didn't you ask? How can knowing these phrases help you in the future?

Go to p. 157.

GR	$\Delta M$	MΔR	TR: 38
OIL		1411-417	1 m. 30

**Present progressive: Saying what is happening now** 

Non-action verbs

**Action verbs** 

I **like** stories about unusual animals.

While I'm reading in bed at night in Mexico, my friend Akiko is reading at school in Japan!

Many animals **see** well enough to hunt

While some animals **are hunting** in the dark,

in the dark.

others are hiding or sleeping.

It **is** 2:00 a.m. in the jungle, but that doesn't **mean** all the animals **are** asleep.

The monkeys **are sleeping** in trees, but the

kinkajous **are looking** for food.

Listen. Circle the non-action verbs you hear. Underline the action verbs you hear. TR: 39

bake	be	drive	enjoy	fly	help	
know	like	need	open	search	sleep	

12 Read and complete the sentences. Use the -ing ending for action verbs.

1	People	(agree	) that it's	good to s	pend time	with	famil	w
т.	1 COPIC	lugico	, tilut it s	good to s	pena min	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	IUIIIII	⊥y.

- 2. This is difficult for family members who \_\_\_\_\_\_ (live) in different countries.
- 3. It's difficult because of different time zones. This \_\_\_\_\_\_ (mean) that it might be morning in one place and afternoon in another.
- 4. For example, Omar in Santiago \_\_\_\_\_\_ (eat) breakfast while his cousin Ali in Dubai \_\_\_\_\_ (come) home from school.
- 5. So when Ali \_\_\_\_\_ (think) about calling Omar, he

\_\_\_\_\_ (have) to consider the time in Santiago first.

Work in pairs. Write what you do at these times. Compare your answers with a partner.

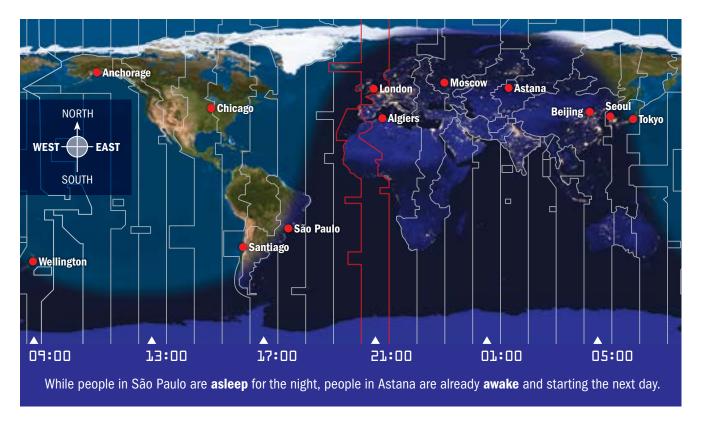
If it's Monday night, I'm studying, but Julia is making dinner.

	Me	
Monday night		
Wednesday during school		
Friday evening		
Saturday afternoon		
Sunday morning		

14

Learn new words. Listen to learn about time zones. Then listen and repeat. TR: 40 and 41

# World **Time Zones**



- **Work in pairs.** Find these cities and their time zones on the map. How many time zones separate them? Write a sentence about what people might be doing in each city.
  - 1. Seoul / Santiago There are 12 time zones between Seoul and Santiago. While people in Santiago are coming home from school and work, people in Seoul are asleep.
  - 2. Beijing / London \_\_\_\_\_
  - 3. Astana / Algiers \_\_\_\_\_
  - 4. Chicago / Moscow \_\_\_\_\_
- Work in groups. Find the place where you live on the map. Note the time now. Choose three other cities. Say if they are to your east or west, and what time it is there. Take turns comparing what you're doing with what people in those cities are probably doing.

- 17 Before you read, discuss in pairs. What do you know about the ocean and life in the ocean? What do you want to learn?
- **Look at the text and photos quickly.** Then answer the questions.
  - 1. Who is this reading about?
  - 2. What sea animal has really big eyes?
- Learn new words. Find the words in the text.

  Guess their meaning. Then look at the first meaning given for each word in the dictionary.

  Compare those meanings with your guesses.

  Then listen and repeat. TR: 42

dawn to fascinate to glow to observe pattern

- 20 While you read, think about what makes animals in the deep ocean different. TR: 43
- **21 After you read, work in pairs.** Check *T* for true or *F* for false.
  - 1. David observes life in the ocean when it's dark.
- T F
- 2. We know a lot about everything that lives in the ocean.
- (T) (F)
- 3. We can see all the glowing colors in the ocean with our eyes.
- T F
- 4. Only one type of animal glows in the dark through the lens of David's camera.
- T F
- 5. A lot of animals at the bottom of the ocean make their own light.
- 6. The vampire squid has very large eyes to help it see in the dark.
- Review. Look at your answers from Activity
- 18. Were they correct? What else did you learn about the person and the sea animal?

# IN THE DAN OF THE OCEAN

A shark glows bright green through the filters of David's camera.

# There are incredible creatures living in the darkness.

In the darkness before dawn, marine biologist David Gruber dives into the ocean to observe the amazing creatures that live there. "Seventy-one percent of Earth is ocean, and much of it is dark, with tons of life down there that we don't know about," he says.

David discovered that many sea animals can see colors in the water that we cannot. So he designed a camera that allows him to see the colors just as a fish does. His camera shows a secret world of neon green, red, and orange colors on ocean life that glows in the dark.

In this fascinating world, David discovered a special kind of shark that glows bright with green spots. "When you see all these little bright spots and patterns it's like flowers and butterflies. Why do they make patterns? It's to attract each other. It's to recognize each other," he says.

At the bottom of the ocean where there is no light at all, many animals produce their own light. The unusual vampire squid is an example. It can turn itself on or off, just like a lamp. It also has very big eyes to help it see in the dark. In fact, compared to its body size, the vampire squid has the largest eyes of any animal in the world. And this is just one

animal: ninety percent of the animals that live at the bottom of the ocean produce their own light.

It's easy to see why the darkness of the sea fascinates David. "Marine animals in the dark ocean produce lights to communicate with each other," says David. "It's an underwater disco party. We human beings are the last ones to join in!"



# 23 Discuss in groups.

- 1. What things about the ocean fascinate you? Why do they fascinate you?
- 2. It's difficult to study the ocean at night because of the darkness. What are some other difficulties David might have when studying the ocean at night?
- 3. Do you think it's important to learn about what lives in the ocean? Why or why not?

# **VIDEO**

24 Before you watch, discuss in pairs.

- 1. What did you love doing as a small child? Do you still love it? What else do you love doing now?
- 2. Are you interested in learning about what's in the ocean? Why or why not?
- Work in pairs. The title of the video you're going to watch is What Glows Beneath. Think of what you learned about David Gruber and his work. Then make two lists: What I learned about David and What I want to learn about David.
- 26 Watch scene 3.1. While you watch, circle the correct answers.
  - 1. David first became fascinated by the ocean by *surfing / scuba diving*.
  - 2. David wondered *if it would be hard to study biology / what's beneath him in the water.*
  - 3. David wanted to photograph the ocean so that he can *sell his photos to magazines / understand how fish see it.*
  - 4. David says that *there's still a lot to learn about / scientists have discovered all of the species of* the ocean.
  - 5. According to David, the future of exploration is finding out *why humans don't glow / how humans fit in among nature*.

27 After you watch, work in pairs to answer the questions.

- 1. What was David's hobby when he was a teenager?
- 2. How does this hobby connect to his job?
- 3. What is special about how David studies the ocean?
- 4. What do the filters in David's camera allow him to do?
- Work in pairs. List three of the sea animals you saw in the video. Describe what they look like. Now think of three sea animals you know about or have seen photos of. How are they different from the animals in the video?

David uses a camera with special filters to explore the dark ocean.

# 29 Choose an activity.

- 1. **Work independently.** Imagine that you went scuba diving and saw some of the animals in the video. Write a postcard to a friend or family member, describing what you saw. In your postcard, explain how you were able to see the animals glow.
- 2. **Work in pairs.** Role-play a conversation between David and a reporter who's asking him about his work. Share your dialogue with the class.
- 3. **Work in groups.** Prepare a glow-in-the-dark presentation. Each person finds out about a different sea animal that glows in the dark. Draw it or find a photo of it. Write three pieces of information about it. Present your group of animals to the class.

52

# **GRAMMAR TR: 44**

At, on, and in: Saying when things happen at eight o'clock / at night / at dinner on Monday(s) / on June 1 / on the weekend in the winter / in the morning / in 2017 / in May

	The same of the sa
30	<b>Read.</b> Complete the paragraph with at, on, or in.
	My family and I visited Marrakesh, Morocco,
	2015. We went December. The weather is
	warm there the winter Monday,
	our first day, we spent a lot of time in the Jemaa el
	Fna, the old city square lunchtime, we The Jemaa el Fna market
	ate at a rooftop café, and the afternoon, we
	watched some dancers five o'clock the evening, we watched the day
	market stalls leave and the night market stalls arrive night we enjoyed the
	storytellers, magicians, musicians, and acrobats, as well as the food from the many
	food stalls. The Jemaa el Fna is incredible both day and night!

**31 Work in pairs.** Talk about places you go to regularly. Use at, on, and in.

1.	Tuesdays	On Tuesdays, I go to the park after school.
2.	night	
3.	afternoon	
4.	March	
5.	weekend	
6.	8:00 a.m.	

Work in pairs. Take turns tossing the cube. Talk about things that happen at different times.



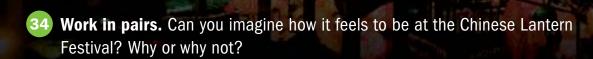


### **WRITING**

In sensory writing, we choose a topic such as an event or a place. We use adjectives, or describing words, to explain what we see, hear, taste, smell, and feel. Describing something using senses helps our reader imagine that he or she is at that event or place.

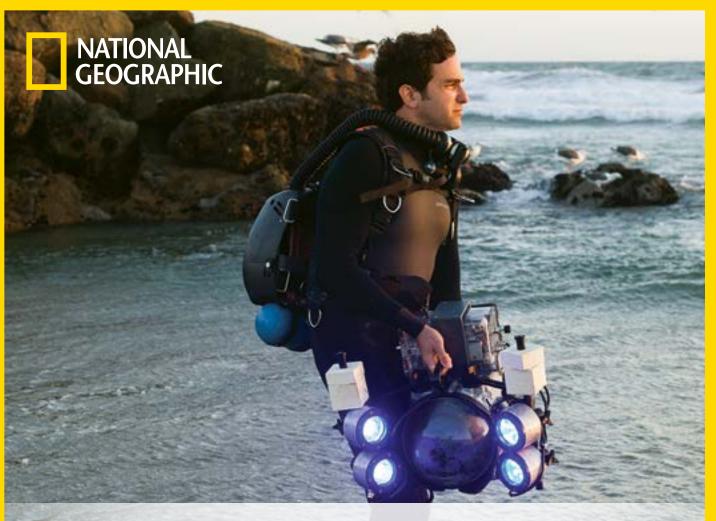
**Read the model.** Work in pairs to identify and underline the words that describe what people see, hear, taste, smell, and feel.

When thousands of glowing lanterns light up the city at night on the fifteenth day of the Chinese New Year, I know the Chinese Lantern Festival has arrived. All kinds of lanterns shine brightly against the dark night sky. Some of the lanterns are small, and others are really big. Some look like beautiful flowers and dragons. The silk lanterns feel soft. The plastic lanterns feel smooth and warm. Families walk happily in the crowded streets, looking at the many kinds of amazing lanterns. While some people are enjoying the colorful lanterns, others are watching exciting parades and traditional Chinese lion dance performances. The loud, popping sounds of firecrackers fill the air. People prepare tasty rice dumplings in the morning for their families and friends to enjoy in the evening. The sweet smell makes me hungry for my favorite food. I love everything about this nighttime festival.



Write. Describe a fun nighttime event. Use sensory words to say what you see, hear, taste, smell, and feel at this event.

in Shanghai, Chir



# **Understand and Protect**

"People want to protect things they love and understand. The more I can share about the amazing animals I get to explore, the more people may want to help protect them."

—David Gruber

**National Geographic Explorer, Marine Biologist** 

- 1. Watch scene 3.2.
- 2. David cares deeply about the ocean and ocean life. Why is it important to protect animals in the ocean? How does David's work help protect them?
- 3. What do you want to protect? Why? How can you get others to care about this?

# Make an Impact

# A Design a poster.

- · Research animals or plants that glow in the dark. Find out how and why they glow.
- · Make a poster to describe three of the glow-in-the-dark organisms you researched. Include photos.
- · Present your poster to the class.

# **B** Write a blog entry.

- · Research a place that is light for more than two months a year.
- · Pretend that you visit during the light season. Write a blog about your visit. Include photos.
- · Publish your blog. Answer questions and respond to your classmates' comments.

# C Make a "day-and-night" video.

- $\cdot$  Choose an interesting place in your region.
- · Make a video of that place during the day and during the night. Mention what is the same and what is different.
- · Share your video with the class.

Bioluminescent fungi glowing