In This Unit

Theme This unit is about life in the dark.

Content Objectives

Students will

- examine the world at night, living in darkness, and nocturnal animals.
- read about creatures that live at the bottom of the ocean and create their own light.
- discuss a marine biologist and his ideas about how to protect ocean life.

Language Objectives

Students will

- talk about night, darkness, and nocturnal activities.
- ask for and give help with schoolwork.
- use the present progressive to say what is happening now.
- use *at, on,* and *in* to talk about when things happen.
- write about an event, using sensory
 details

Vocabulary

pp. 44–45 active, dark, darkness, festival, to go to sleep, headlight, horizon, to light up, north, south, sunrise, sunset

p. 46 daylight, healthy, streetlight

- **p. 49** asleep, awake, east, time zones,
- **p. 50** dawn, to fascinate, to glow, to observe, pattern

Vocabulary Strategies Compound words; Using a dictionary

Speaking Strategy Asking for help with schoolwork

Grammar

Grammar 1 Use the present progressive to say what is happening now

Grammar 2 Use *at, on,* and *in* to say when things happen

Reading In the Dark of the Ocean
Reading Strategy Describing words

Video Scene 3.1: What Glows Beneath; Scene 3.2: Meet David Gruber

Writing Description of an event

National Geographic

Mission Understand and Protect

Project

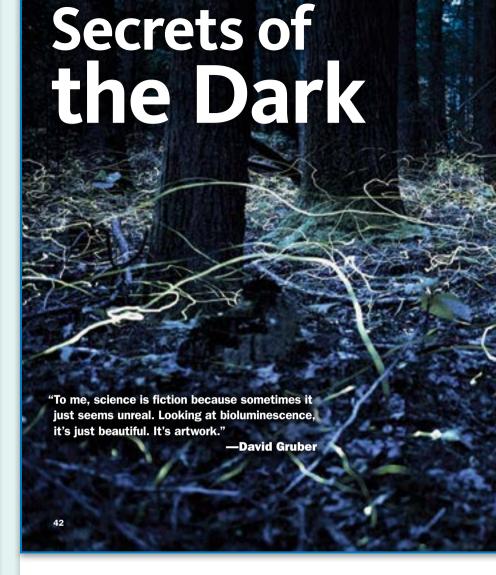
92

- Poster
- Blog entry
- "Day-and-night" video

Pronunciation Present progressive: Stress of the verb to be

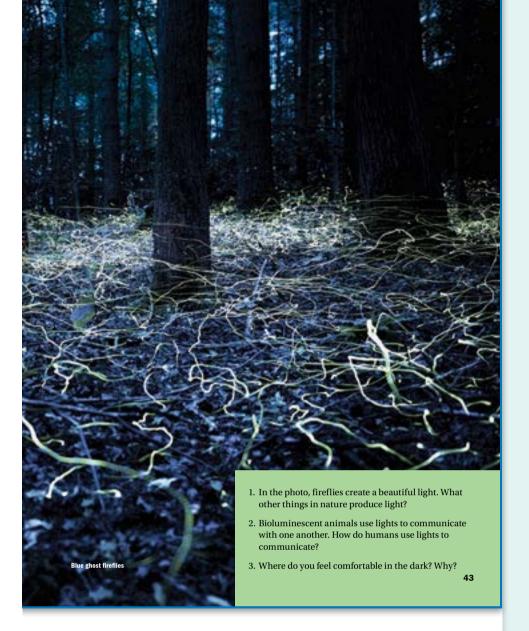
Pacing Guides 1.3.1, 1.3.2, 1.3.3

Unit 3



Introduce the Unit

- Build background Ask What is darkness? (the absence of light) Say Some people don't like being in the dark. They think it's uncomfortable, even scary. Ask Why do you think that is? Explain that although people can see in the dark, we can't see colors well in the dark. Ask When is it dark? (at night) You can see beautiful things at night. What can you see at night that you don't see in the day?
- Have students open their books to pp. 42–43. Ask What do the squiggly lines look like? (colored string, worms, tree roots) Have a student read the caption. Tell students the photo was taken using a special technique (time-lapse photography) that allows events to be sped up and seen in a different way.
- Ask questions to encourage further discussion of the photo:
 What are some other ways to describe the photo?
 How does it make you feel about nature, photography, and darkness?
- Have a student read Question 1 on p. 43 aloud. Write some responses on the board. Explain that the light produced by fireflies



and other creatures is called *bioluminescence* and is the result of a chemical reaction within their bodies.

- Say bioluminescent and have students repeat. Say This is the adjective that describes an animal that produces light, as in "Fireflies are bioluminescent insects." Then read aloud Question 2. Explain that animals use bioluminescence to attract mates, defend their territory, and keep predators away. Ask How do we use light to communicate? (for signaling; with lighthouses and flashlights)
- Have a student read Question 3 aloud. Ask *Do you ever feel* uncomfortable in the dark? Guide students to think about and discuss what it is about darkness that makes some of us uncomfortable.
- Read the quote on p. 42 by David Gruber aloud. Then say Science is about finding out how real things work. How can science be fiction, which is about things that are made-up?

Extend

• Distribute **Worksheet 1.3.1**. Explain that partners will be thinking and writing about the dark and the beauty to be found in science.

Unit Opener

Objectives

Students will

- describe and discuss a photo.
- discuss darkness and how some animals create their own light.

Content Vocabulary comfortable, fireflies

Resources Worksheet 1.3.1 (Teacher's Resource CD-ROM/Website); CPT: Unit Opener

Be the Expert

About the Photo

This photo of thousands of blue ghost fireflies was taken in a forest in North Carolina. These tiny fireflies are common throughout the southeastern United States and are called blue ghosts because of the blue and green light they produce. Their uniqueness lies in the fact that their "blink pattern" is much longer than the common firefly's, and they tend to hover about a foot off the ground. They seem not to flash so much as glow.

Fireflies emit light to attract mates, defend their territory, and warn predators to stay away. In some species, only one gender lights up. In most, however, both genders produce light.

Teaching Tip

Students may not tell you when they don't understand a word or a concept. Before beginning a lesson, preview some of the more challenging concepts or vocabulary. You may want to pair a fluent student with a less-fluent one and allow them to communicate briefly in their first language, if necessary, to clarify understanding. During class discussions, walk around the room and check students' understanding by asking individuals to share ideas with you.

Unit Opener

93



Vocabulary

Objectives

Students will

- use vocabulary related to sunlight and darkness.
- use new vocabulary to read about and discuss winter in northern

Target Vocabulary active, dark, darkness, festival, to go to sleep, headlight, horizon, to light up, north, south, sunrise, sunset

Content Vocabulary Norway, Norwegian, nutrients, sunlight, vitamins

Resources Worksheet 1.3.2 (Teacher's Resource CD-ROM/Website): TR 32-33: (Audio CD/Website/CPT): CPT: Vocabulary

Materials globe of the world (optional)



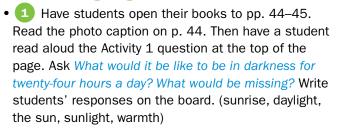
Warm Up

- Build background Say We're going to read about a place in Norway where people live in darkness for two months every year in winter. Imagine that! Does anyone know why that is? Explain to students that this annual occurrence, called the Polar Night, happens because of the way Earth is tilted.
- In Norway and other nearby countries, winter comes around when that part of the world is facing away from the sun. At that time, the Arctic Circle is angled the farthest away from the sun. In other words, the rest of the planet blocks the sun's light. If possible, demonstrate for students the movement of Earth on its axis and the locations of both Norway and the Arctic Circle with a globe of the world.

Present 1 2







- Ask How would life be different without sunlight? Prompt students with ideas such as the following: getting up every morning in the dark, always having a light on, using a flashlight when you go outside.
- Let's list some things that would be difficult to do without sunlight. Have several students take turns completing the following frame:



Be the Expert

Our World in Context

Longvearbyen is one of the world's northernmost towns. It is located on one of the Svalbard Islands, between Norway and the North Pole, in a region of the world called the high Arctic. The town is named after an American, John Munro Longyear, who founded the town and the neighboring coal mine. Mining remains an important part of the local economy, but today the town is a center of tourism and research. Snow covers the town from late September through May and, as everywhere in Svalbard, roaming polar bears pose a significant threat to the town's 2.500 inhabitants.

Teaching Tip

When an activity calls for classmates to work in pairs or groups and exchange information, remind students to pay close attention to what their partner or group members are saving. Encourage students to repeat aloud what their partners say, ask their partners to clarify unfamiliar or unclear information, and ask follow-up questions. These techniques will help students become active listeners and allow them to learn more about their classmates.

Related Words

glacier

would be difficult without sunlight. I think

• Play TR: 32 and have students listen and read. Then discuss the photo and the reading with students. Ask questions such as the following:

What do you think is beautiful in the photo? Why do we need sunlight to be healthy? How do Norwegians have a good time in winter?

2 Play TR: 33. Have students listen and repeat. Have partners or small groups take turns saying each word. Then assign three or four vocabulary words to each group. Say Work together to write a new sentence for each of your words. Model an example. Write In winter, people in Norway go to film and music festivals.

• When students are finished, have a person from each group read their sentences to the class.

Practice 3





• 3 Pair students. Say Think about the reading. Look at the photo again. How do the people of northern Norway experience winter? Now imagine you've been sent to live there for two months without sunlight. Have partners read and complete Activity 3 on p. 45.

• 4 Have students turn to p. 46 and read the words and phrases in the word box aloud. Have them choose two terms and use them in a sentence. Repeat until all of the words have been used. Have students complete Activity 4 independently. Call on someone to read the completed paragraph aloud.

95 Unit 3 Vocabulary

Vocabulary

Objectives

Students will

- practice using vocabulary related to sunlight and darkness, day and night.
- use a vocabulary strategy to learn new vocabulary.

Target Vocabulary daylight, healthy, streetlight

Vocabulary Strategy Compound words

Academic Language observe Content Vocabulary electric lights

Resources Online Workbook/ Workbook pp. 24-25; Worksheet 1.3.2 (Teacher's Resource CD-ROM/ Website); TR 34-35 (Audio CD/ Website/CPT); CPT: Vocabulary

Materials drawing materials



- **5 Learn new words** Read the words in the box. Tell students they've heard and read two of these words before. Challenge partners to find the words on pp. 44–45. Then play TR: 34 as students listen. Have students pronounce each word and use it in a sentence. Then play TR: 35 and have students listen and repeat. Tell students to complete Activity 5 independently.
- Vocabulary Strategy Write streetlight on the board. Draw a vertical line between street and light. Point to the board and ask What two smaller words make up the word streetlight? Tell students that a word made up of two smaller words is called a compound word. Say Recognizing the words that make up a compound word can help you figure out what the compound word means. Point to street and ask What is a street? (a road in a city or town with houses on it) Point to light and ask What is a light? (something that produces light, such as a lamp) Say Putting those two meanings together, what do you think streetlight means? (a lamp that lights up a street)

 Ask What other compound words do you see on page 46? (daylight, headlight, sunrise, sunset) Have pairs work together to write the meanings of the four words. Remind them to break each word into its two smaller words.

Apply 6

- 6 Have students look at Activity 6. Say All of these activities have to do with living in the dark. Point out the animal in the photo. Tell students it's a kinkajou, a cat-sized animal that lives in the tropical forests of Central and South America. Kinkajous are active at night and sleep in the treetops during the day.
- Think Aloud Model thinking about an activity. The first activity sounds interesting. I like animals, but what animal can I watch at night? Fireflies are out at night, but I'm not sure how much I'd learn by watching them. Owls and bats are not easy to observe. I know! My cat sleeps all day because he's up at night. I'll observe him. I know he can see better at night than I can.
- Students who choose options 2 and 3 may benefit from doing some research on the Internet. Tell those thinking of option 2 to start by rereading the paragraph in Activity 4. Suggest that students considering option 3 spend some time looking at product ads in magazines or newspapers.

Extend

- Give students the option of either writing a paragraph explaining what causes the Polar Night or drawing a map of Norway. Maps should include the Norwegian mainland and the Svalbard Islands, as well as labels for Longyearbyen, the Arctic Ocean, and the Arctic Circle. Allow students time to research the Polar Night or to consult a globe or map. Then have them share their work.
- If time allows, assign Worksheet 1.3.2. Explain that students will use it to practice the new vocabulary words.

Wrap Up

- Write the following on the board: Night: dark, darkness, go to sleep, sunset Day: active, daylight, festival, sunrise
- Say Let's play a game called Night and Day. You'll make sentences with the new vocabulary words. When I point to you. I'll say either "You're a night person" or "You're a day person." Then you choose a word from the board and say a sentence. Model by saying For example, I'm a night person, so I choose sunset. My sentence is "I love pink and orange sunsets."

Be the Expert

Vocabulary Strategy

Compound Words In English, there are three forms of compound words: closed form, where two words are joined together to make a new word with a new meaning (daylight, keyboard); hyphenated form, where the words are joined with a hyphen (mother-in-law, eleven-vear-old): and open form, where the words are open but when read together, a new meaning is formed (police officer, post office).

Students find it fun to learn compound words and practice English vocabulary with compound word games. Students can divide words, match up parts, and make up new compound words. Learning about compound words gives students a new way of looking at words. It helps build an interest in words and prepares students to learn prefixes, suffixes, and word roots.

Teaching Tip

When possible, it's wise to keep a lively pace going throughout a lesson. Although it's important to make sure students have time to think before they respond, it's usually not a good idea to have the class wait for long periods of time while students formulate their ideas or sentences. A brisk pace allows students to get more practice in the same amount of time and makes it less likely that they will start thinking about other things. In general, students will be more engaged. more active, and more able to learn if the pace is kept reasonably fast.

Formative Assessment

Can students

· use vocabulary related to sunlight and darkness?

Have students explain the difference between sunrise and sunset.

• use new vocabulary to discuss winter without sunlight in northern Norway?

Ask For part of the winter, is northern Norway without darkness or sunlight? (sunlight)

Workbook For additional practice. assign Workbook pp. 24-25.

Online Workbook Vocabulary

97

Speaking Strategy

Objectives

Students will

- use words and phrases to ask for help with schoolwork.
- use words and phrases to respond to questions asking for help.

Speaking Strategy Asking for help with schoolwork; helping with schoolwork

Academic Language pronounce, pronunciation

Resources Online Workbook: Worksheet 1.3.3 (Teacher's Resource CD-ROM/ Website); TR 36-37 (Audio CD/ Website/CPT); CPT: Speaking Strategy

Materials large sticky notes (optional), note cards

SPEAKING STRATEGY TR: 36

Asking for help with schoolwork

What does nocturnal mean? How do you pronounce it? How do you spell it?

It means active at night.

Helping with schoolwork

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. What does carnivorous mean? lt means things that eat meat.

This one is called a Neventhes. How do you spell that?

Hwan: What? _ I'm not sure. Let's look it up. N-e-p-e-n-t-h-e-s. Another name is pitcher plant. It

eats arthropods.

Hwan: Arthro... what? How do you pronounce that? l think you say ar-throw-pod. You know, 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

A glowing pitcher plant

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

Hwan: Amazing!





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.

47

Warm Up

- Activate prior knowledge Say Science is full of interesting facts. Think of bioluminescence. It's amazing that some animals can produce their own light. But science words can be hard to say and spell. Explain to students that a dictionary can help, but sometimes your first reaction is to ask someone for help.
- Ask How do you ask someone for help when you see or hear a word you don't understand? How do you respond when someone asks you for help? Discuss students' responses. Then have partners act out situations in which they make and answer requests for help. Say Point to a classroom object or a word in a textbook and ask a classmate for help with the word. Take turns asking and answering questions.

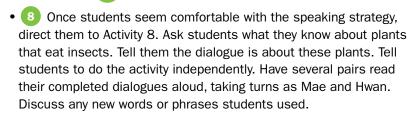
Present 7



- Have students open their books to p. 47. Say We're going to hear people asking for help with schoolwork and responding. Play TR: 36. Ask Do you sometimes have to ask for help like that? When? Have students describe situations in which they ask for help with words in English. Then replay TR: 36. Say Let's listen
- Call on pairs to practice reading aloud the questions and answers. Say One partner reads the questions. the other reads the answers. Do them one at a time. Then switch roles. Have more fluent pairs model for the class. Then call on less-fluent students to read the sentences. Tell them to do their best and that you don't expect everyone to read everything correctly.

• 7 Say Listen as two speakers ask for help with schoolwork and respond. Write down the questions you hear and the speaker's responses. You'll hear words like the ones at the top of page 47. Play TR: 37. Have students share what they wrote. Replay the track if necessary.

Practice 8



Apply





- 9 Have students cut out the cards on p. 157. Read the Activity 9 directions aloud and have partners read the speech balloons. Point to a pair. Say (Michele), choose a card and say, "Tell me about this animal." (Jorge), read the information about the animal. (Michele), write down the information. Ask for help with spelling, meaning, and pronunciation if you need it. Then explain that partners will change roles and continue to play until they both have all the information about all the animals.
- 10 Read the activity directions aloud. Then pair students with new partners. Say Think about a time when you needed help. What happened as a result of not asking for help?

Extend

- Divide the class into groups of six. Each group will use one set of animal fact cards from Activity 9. Cover the picture on each card. Attach a piece of paper with a clip or place a sticky note over it. Give each student in the group one card. Say Take turns describing your animal, but don't read the name, and don't let the others see it. Group members will raise a hand to answer. Use the phrases you've learned. For example, If you know the animal but you're not sure of the name, say, "I think it's pronounced..." or "I think it's spelled..."
- If time allows, assign Worksheet 1.3.3. Explain that students will use the worksheet to practice how to make and respond to requests for help.

Wrap up

• Write these words on cards: arthropod, carnivorous, hemisphere, kinkajou, nocturnal, and Norwegian. Pair students and give each partner two or three cards. Have partners use the phrases they've learned to ask and answer questions about their words.

Be the Expert

Strategy in Depth

Here is a list of some other common sentences used to ask for help in the classroom:

I don't understand. Can you help me, please? Is this right / wrong?

Another strategy students should learn is asking to repeat:

Could / Can you repeat that, please? Could / Can you say that again, please? Pardon me? Can you repeat that?

Encourage students to learn these words and phrases and use them often.

Formative Assessment

Can students

• use words and phrases to ask for help with schoolwork?

Say Imagine you don't know what nocturnal means or how to spell it. Ask How would you ask a classmate for help?

• use words and phrases to respond to questions asking for help?

Ask How would you respond to a classmate who asked you what nocturnal means?

Online Workbook Speaking Strategy

Grammar 1

Objectives

Students will

- identify and use non-action and action verbs.
- use the present progressive to talk about actions.
- · use words associated with time zones.

Grammar Present progressive: Saying what is happening now

Target Vocabulary asleep, awake, east, time zones, west

Academic Language action verb, non-action verb

Pronunciation Present progressive: Stress of the verb to be

Resources Online Workbook/ Workbook pp. 26-27; TR 38-39, 123-125 (Audio CD/Website/CPT); Pronunciation Answer Key (Teacher's Resource CD-ROM/Website); CPT: Grammar 1 and Pronunciation

Materials a fruit or vegetable

| Non-action verbs | | Action verbs | | |
|---|--|--|--|---|
| like stories about unusual | animals. | While I'm reading i | n bed at night in N | Mexico, |
| Many animals see well enough to hunt in the dark. It is 2:00 a.m. in the jungle, but that | | my friend Akiko is i | - | |
| | | While some animals are hunting in the dark, others are hiding or sleeping. The monkeys are sleeping in trees, but the | | |
| | | | | |
| Listen. Circle the non-a | action verbs you h | near. Underline th | e action verbs y | you hear. TR: 39 |
| bake (I | be drive | enjoy | fly | help |
| know | like need | open | search | sleep |
| This is difficult for far different countries. It's difficult because of | | | | |
| different countries. 3. It's difficult because of that it might be morn | of different time zo ning in one place a | ones. This and afternoon in a | means nother. | (live) in |
| different countries. 3. It's difficult because of that it might be morn | of different time zo ning in one place a | ones. This and afternoon in a | means nother. | (live) in (live) in |
| different countries. 3. It's difficult because of that it might be morn. 4. For example, Omar in cousin Ali in Dubai | of different time zo aing in one place a Santiago | ones. This and afternoon in a is eating oming | means another. (ea | (live) in (at) breakfast while |
| different countries. 3. It's difficult because of that it might be morn. 4. For example, Omar in cousin Ali in Dubai. | of different time zo aing in one place a Santiago | ones. This and afternoon in a is eating oming | means another. (ea | (live) in (at) breakfast while |
| different countries. 3. It's difficult because of that it might be morn 4. For example, Omar in cousin Ali in Dubai | of different time zo ning in one place a Santiago is thinking at you do at these | ones. This and afternoon in a is eating (thir (have) to consider the times. Compare | means inother. (ea (come) home ak) about calling the time in Sar | (live) in (at) breakfast while from school. g Omar, he htiago first. |
| different countries. 3. It's difficult because of that it might be morn 4. For example, Omar in cousin Ali in Dubai 5. So when Ali | of different time zo ning in one place a Santiago is thinking at you do at these | ones. This is eating oming (thir (have) to consider e times. Compare | means inother. (ea (come) home ak) about calling the time in Sar | (live) in (at) breakfast while from school. g Omar, he htiago first. |
| different countries. 3. It's difficult because of that it might be morn 4. For example, Omar in cousin Ali in Dubai _ 5. So when Ali | of different time zo ning in one place a Santiago is thinking at you do at these | ones. This and afternoon in a is eating (thir (have) to consider the times. Compare | means inother. (ea (come) home ak) about calling the time in Sar | (live) in (at) breakfast while from school. g Omar, he htiago first. |
| different countries. 3. It's difficult because of that it might be morn 4. For example, Omar in cousin Ali in Dubai _ 5. So when Ali | of different time zo aing in one place a Santiago is thinking at you do at these | ones. This is eating oming (thir (have) to consider e times. Compare | means inother. (ea (come) home ak) about calling the time in Sar | (live) in (at) breakfast while from school. g Omar, he htiago first. |
| different countries. 3. It's difficult because of that it might be morn 4. For example, Omar in cousin Ali in Dubai _ 5. So when Ali | of different time zo aing in one place a Santiago is thinking at you do at these | ones. This is eating oming (thir (have) to consider e times. Compare | means inother. (ea (come) home ak) about calling the time in Sar | (live) in (at) breakfast while from school. g Omar, he htiago first. |

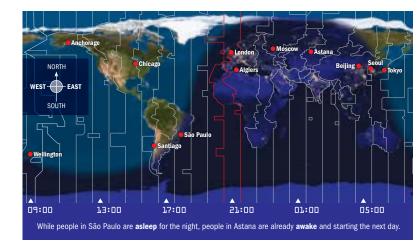
Warm up

Sunday morning

- Preteach Say Right now I'm talking to you, and you're listening to me. I'm also walking around the room, and maybe you're wiggling your leg or touching something on your desk. But we're all doing some action. Ask a few students to tell what they did before coming to class. Write the simple-present form of the verbs students use on the board. (e.g., eat, ride, play, read, listen, practice) Say All of these words describe actions—things you do with your body. They're called action verbs.
- Point to a student and say *How are you today?* Have the student respond. (I'm fine/okay/good.) Pick up a piece of fruit or a vegetable and smell it. Say This smells (fresh, sweet, spicy). Hand it to a student and ask *How does it feel?* Have the student respond. (It feels smooth/bumpy/soft.) Write on the board are, am, smells and feels. Ask Do these words describe actions? (not really) These verbs are called non-action verbs.

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

World 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. Time zones apart: 7 2. Beijing / London _

Work in pairs. Find these cities and their time zones on the map. How many time zones

Time zones apart: 5 3. Astana / Algiers ___ Time zones apart: 8 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.

• Explain to students that they're called non-action verbs because they describe a state of being or a situation, as in I am a teacher, You are a boy, You look sleepy, The desk feels hard. If students suggest that feels or smells involves action, point out the difference between touch, which describes an action you perform, and feels, which describes the "state" of the thing you're touching.

Present

- Have students open their books to p. 48 and look at the chart at the top of the page. Say Let's listen to some sentences with non-action verbs and action verbs. Play TR: 38 as students listen. Then read aloud each sentence on the left side of the chart.
- Explain that although most verbs that relate to the senses, such as see, taste, and feel, are non-action verbs, they can sometimes be used as action verbs.

Be the Expert

Grammar in Depth

Non-action verbs are used primarily to describe a state of being or situation as opposed to an action or process. Examples include be, like, seem, prefer, understand, doubt, and know. They do not describe actions and typically are not used in the present-progressive form, that is, with the -ing ending. For example, you wouldn't say He's seeming to be nervous or I'm knowing your name.

Pronunciation

Go to Student Book p. 145. Use audio TR: 123-125.

Present progressive: Stress of the verb to be The verb to be is used both as a main verb (The cat is cute) and as an auxiliary verb in the present progressive (I am working) and other tenses. Affirmative forms of to be are unstressed except when at the end of a short answer (Yes, I am) or in other less-common situations, such as clarifying an answer (I said I am coming).

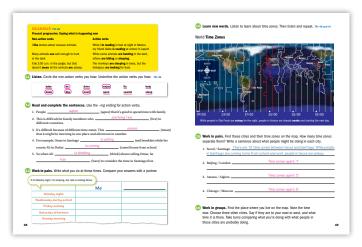
Negative forms, such as in a negative statement (We aren't leaving) or a negative question (Aren't you hungry?) are stressed.

Teaching Tip

Students who feel valued and supported in class are likely to take an active role in the learning process. Create a classroom atmosphere in which students do not need to be overly concerned about making mistakes. At the beginning of class, explain to students that they're learning new things and that making mistakes is a natural and expected part of learning.

100

101



• Say If I said, "See the tree over there," what I really mean is "Look at the tree over there," which describes an action. So, in that case, see would be an action verb. Explain that, similarly, hear is a non-action verb, but listen is an action verb because listening is something you have to actively do. Display a list of common non-action verbs:



- Call on students to model using a non-action verb in a sentence. (Do you agree with me? Do you like the darkness? That sounds really loud.)
- Now read aloud the sentences on the right side of the chart on p. 48. Point out that each verb includes a form of to be and -ing. Explain that this is the present progressive and is used to show a continuing action. Have pairs of students read all of the sentences in the chart to each other. Say Read a sentence to a partner. Then ask, "Is the verb an action or a non-action verb?" Take turns.

Practice 11 12 13





• 11 Say Now we'll listen to some sentences with non-action and action verbs. Play TR: 39 once and have students listen. Play the track again and have students complete the activity. Say *Pay attention to* each verb you hear. Does it describe an action or state of being that is going on right now? Does it end in -ing? Review the answers as a class.

- 12 Read the Activity 12 directions aloud. Say Let's do the first one together. Read item 1. Say I have to fill in the blank with the correct form of the verb agree. Agree is a non-action verb, so I won't add a form of to be and -ing. Have students complete the activity.
- 13 Have a student read aloud the activity directions and the text in the speech balloon. Say Fill in the "Me" column of the chart with the activity you're usually doing at each time of day shown in the first column. Explain that students should then write their partner's name at the top of the third column, and add his or her information in each row. When they're finished, ask How do your activities compare? Call on students to read their completed charts.

Apply 14 15 16







- 14 Learn new words Say Look at the map on page 49. It shows the 24 time zones the world is divided into. Have students count the zones on the map. Explain that moving from left to right, each zone advances the time by one hour. Read aloud the caption. Say When it's 18:00 in the evening (6 p.m.) in São Paolo, it's 02:00 in the morning in Astana. Play TR: 40 and have students listen. Then play TR: 41. Have students listen and repeat.
- 15 Read aloud the activity directions. Pair students. Read the answer to item 1 and have students count the time zones on the map between the two cities. Explain that if there are 12 time zones between the two cities, then Seoul is 13 hours ahead of Santiago.
- Circulate as pairs work and provide assistance as necessary. When students have finished, confirm the number of time zones for each item. Call on different students to read their sentences to the class.
- 16 Put students into small groups. Read the directions aloud. Ask What time is it now? Write it down. Now find our time zone on the map. Make sure everyone agrees where it is. Appoint a note-taker for each group and tell them to write down their group's three cities and the time in each one. Then have groups do the activity. Say *Use the vocabulary words* as you discuss what the people in your cities are doing. Circulate to make sure everyone gets a chance to talk.

Extend

• Have groups make a chart showing their cities, times, directions, and activities. Display the chart below as a model. Have groups present their charts to the class.

| | Your City | Chicago | Algiers | Beijing |
|-----------|-----------|---------|---------|---------|
| Time | | | | |
| Direction | / | | | |
| Activity | | | | |
| | | | | |
| | | | | |
| | | | | |

Wrap Up

• Choose vocabulary words from the following list to write on note cards, one to a card: active, awake, dark, darkness, daylight, east, festival, headlight, healthy, horizon, north, south, streetlight, and west. Give each student a card. Take one yourself. Display the following list on the board:

| Non-active verbs | | Active verbs | | |
|------------------|---------|----------------|----------|--|
| to agree | to like | to get | to read | |
| to be | to mean | to go to sleep | to rise | |
| to feel | to need | to light up | to set | |
| has | to seem | to live | to shine | |

- Divide the class into teams of equal numbers of students. Say Use the word on your card and a verb from the board to make a sentence. Tell students they'll get one point for a correct sentence, another point for using an active verb with a form of to be and ending in -ing, and a third point for using both an active and non-active verb in their sentence.
- Model. Say My word is streetlight. I choose the verb to light up. My sentence is "The streetlights are lighting up now that it is dark." I earned three points—one for a correct sentence, one for using the -ing form of an active verb, and one for using a non-active verb. Call on one student at a time. Alternate groups. Say Let's see which team gets the most points!

Be the Expert

Our World in Context

China is the largest country with only one time zone. It should really have five! It's as if New York, Chicago, Denver, and Los Angeles (each in a different time zone in the United States) were all in the same zone. India is the second largest country with only one time zone.

Teaching Tip

Be mindful of the different ways that students learn. Some students learn best when they hear information. Others learn best when they write things down. Still others find that using their bodies by pointing, acting out, or walking and talking helps them learn best. Provide a variety of activities and use different ways of explaining. A mix of activities gives different learners different ways to be involved with the lesson.

Formative Assessment

Can students

• identify and use non-action and action verbs?

Ask students to identify the action and non-action verbs in this sentence: Do you agree that many kids are spending too much time on indoor activities?

• use the present progressive to talk about

Have students complete this sentence with the correct -ing form of the verb in parentheses: It's not as if we _ in darkness for 20 hours a day. (live)

• use words associated with time zones?

Have students fill in the blanks: When the _, it's time to be sun rises in the __ _ and active!

Workbook For additional practice, assign Workbook pp. 26-27

Online Workbook Grammar 1

102 Unit 3

Reading

Objectives

Students will

- read about and discuss life in the deep ocean.
- use new words from the reading.
- discuss the ocean and ocean research.

Reading Strategy Describing words

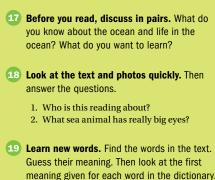
Target Vocabulary dawn, to fascinate, to glow, to observe, pattern

Content Vocabulary disco, marine, neon, to recognize

Vocabulary Strategy Using a dictionary

Resources Online Workbook/Workbook pp. 28-29; TR 42-43 (Audio CD/ Website/CPT); Worksheet 1.3.4 (Teacher's Resource CD-ROM/ Website); CPT: Reading

Materials set of classroom dictionaries; drawing materials, including neoncolored crayons or markers



Compare those meanings with your guesses.

dawn to fascinate to glow to observe pattern

animals in the deep ocean different. TR: 43

20 While you read, think about what makes

21 After you read, work in pairs. Check T for

1. David observes life in the

that lives in the ocean.

2. We know a lot about everything

3. We can see all the glowing colors

in the ocean with our eyes.

4. Only one type of animal glows in the dark through the lens of

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.

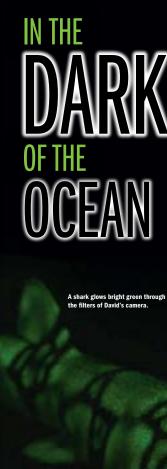
22 Review. Look at your answers from Activity

18. Were they correct? What else did you learn about the person and the sea animal?

David's camera.

ocean when it's dark.

Then listen and repeat. TR: 42



Warm Up

• Activate prior knowledge Ask What's the title of this unit? (Secrets of the Dark) Write the unit title on the board. Ask What are things we've learned about that can only been seen in the dark or at night? (bioluminescence, nocturnal animals) Write the terms under the unit title. Call on students to explain what bioluminescence and nocturnal mean.

(F)

(T) F

(T) (F)

 Discuss how being able to produce their own light and having large eyes to see better are special characteristics, or features, that certain animals have developed over millions of years. These special features allow the animals to live successfully in the dark.

Before You Read 17 18 19







• 17 Ask What do you know about the ocean? What do you know about things that live in the ocean? Pair students and have them discuss the ocean and ocean life. Ask What secrets might be hiding there? What do you want to learn about the ocean?

There are incredible creatures living in

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

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

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



23 Discuss in groups.

- 1. What things about the ocean fascinate you? Why do they fascinate you?
- 2. It's difficult to study the 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?

• 18 Have students open their books to pp. 50–51. Read the Activity 18 directions aloud. Say Read the title. Look at the photos and read the captions. Take a minute to look over the text. Explain to students that there are strategies they can use when they need to find specific information in a text quickly. Say One strategy is called scanning. When you scan a text, you look for words that will help you find what you need.

- Say The first question asks who the reading is about, so look for a name. When students are ready to move on, ask What words might help you answer the second question? (the name of an animal, the words big eyes) Tell students to write down their answers and set them aside to use later.
- 19 Learn new words Say Now you're going to learn some new words. Read aloud the first two sentences of the directions. Have students find the word dawn in the reading (the first line). Say What context clue do you see that might help you figure out what dawn means? Guide students to see that "the darkness before dawn" suggests that after dawn it's not dark. Have students write what they think dawn means.

Be the Expert

Reading Strategy

Describing words Describing words make writing clear and help readers visualize what they read. Many of the words used to describe in English are adjectives. Precise, vivid adjectives that appeal to the senses add detail and clarity to writing. For example, have students compare the following two sentences, which have the describing words underlined. Ask which one gives them a clearer picture in their minds of the undersea world David Gruber's camera captures.

His camera shows a world of colors on ocean life that gives off light.

His camera shows an exciting, secret world of neon green, red, and orange colors on ocean life that glows in the dark.

Vocabulary Strategy

Using a dictionary When students find more than one entry for a word in the dictionary, tell them to check the part of speech in each entry. For example, glow can be a noun or a verb, and there's a separate entry for each one. The parts of speech are often abbreviated as n. (noun), v. (verb), adj. (adjective), and adv. (adverb), to name a few.

Teaching Tip

Don't let limited vocabulary restrict students when they brainstorm ideas or participate in discussions. If students have an idea but don't know or can't remember the words to express it, ask them to act it out, draw a picture, or use other words to describe it. Then help them remember or learn the English words to describe their ideas.

104 105 Unit 3 Reading



- Pair students and have partners work together to find the rest of the words in the reading and guess their meanings. Tell them to write down what they think each word means.
- Vocabulary strategy Remind students that they can always check or look up an unfamiliar word's meaning in a dictionary. Use the word *pattern* to point out that many words have more than one meaning and that the first meaning listed in the dictionary is not always the meaning they're looking for.
- Say The word pattern has many meanings. Write the first couple of definitions on the board and read them for students.

pattern: 1. a model that can be used as an example to be imitated

- 2. something used as a model for making things, such as clothing
- 3. an arrangement of lines, shapes, or colors
- Guide students to see that the third definition makes the most sense in the reading. Say Now, look up each of the new words in the dictionary and compare the first definition with the meaning you wrote down. If that definition doesn't seem right, look at the other meanings. Is there another one that better matches the context from the reading?

 When students finish comparing definitions, say Now that you've looked up the words, do you want to change any of your definitions? Finally, play TR: 42. Have students listen and repeat.

While You Read 20



- 20 Say Now we're going to listen to In the Dark of the Ocean and learn about some of the animals that live in it. Play TR: 43 and have students follow along.
- Say Now read again. Look for the words the writer uses to describe animals that live in the deep ocean. Can you picture the animals in your mind? How does the writer help you do this? Play TR: 43 again or allow students to read in silence.

After You Read 21 22 23







- 21 Pair students. Have partners read the activity directions. If necessary, do the first item with the class. If partners disagree on an answer, tell them to read the text again and find information that supports their answers. Have partners complete the activity. Review the answers as a class.
- 22 Say Now that you've read In the Dark of the Ocean, look at the answers you wrote to the Activity 18 questions. Ask Were your answers correct? Say We already knew that David Gruber is a scientist who's interested in light and darkness. What else did you learn about him? Did anyone think the green shark would be the animal with the really big eyes? Call on students to share the answers they wrote and the new information they learned.
- 23 Have students form small groups and read the activity questions. Have a group member act as secretary and write down notes from the discussion about each question. Provide ideas (such as the discussion prompts on the next page) if students are struggling with their discussions.

Discussion prompts

What fascinates vou about the ocean?

the unusual sea life

 the strange environment water creates for humans (can't walk, breathe, talk)

What is difficult about being in the ocean at night?

 How might the darkness affect your sense of direction?

dive into the ocean in the

• Is it more dangerous to

dark?

Is it important to study the ocean?

· How might learning how creatures survive in the dark help us?

Extend

- Say David Gruber says there's "tons of life" in the ocean we don't know about. Have students review the words in the reading used to describe the unusual features of some creatures that live at the bottom of the ocean. Then say Draw a picture of what you think one creature that hasn't been discovered yet might look like.
- If time allows, you may want to assign Worksheet 1.3.4 so students can practice the new vocabulary words.

Wrap Up

• Write the following words on the board: active, dark, darkness, to light up, asleep, awake, to fascinate, to glow, and pattern. Say Now present your picture of an undiscovered creature to the class. First, name your creature and write a sentence or two about it. Try to use some of the words on the board. When students have finished displaying their pictures and reading their sentences, have the class vote for their favorite creature. Then call on students to tell why it's their favorite. You might want to display students' drawings in a Secrets of the Dark classroom display.

Be the Expert

Teaching Tip

Make sure students use new vocabulary words when they work in groups. Sometimes, it's possible to answer a question without using a new vocabulary word. In those cases, write sentence starters or frames on the board to remind students to use the new words. Walk around the room to check that students are using new vocabulary words.

Formative Assessment

Can students

 recall information about life in the deep ocean?

Ask students to describe the animals they read about in In the Dark of the Ocean.

- use new words from the reading? Ask students to use to fascinate, to glow, or to observe to tell something about David Gruber or his work.
- discuss the ocean and ocean research? Ask students to tell one thing about the ocean they would like to know more about.

Workbook For additional practice, assign Workbook pp. 28-29.

Online Workbook Reading

106 107 Reading Unit 3

Video

Objectives

Students will

- · discuss David Gruber and his underwater research.
- apply the message of the video to their personal lives.

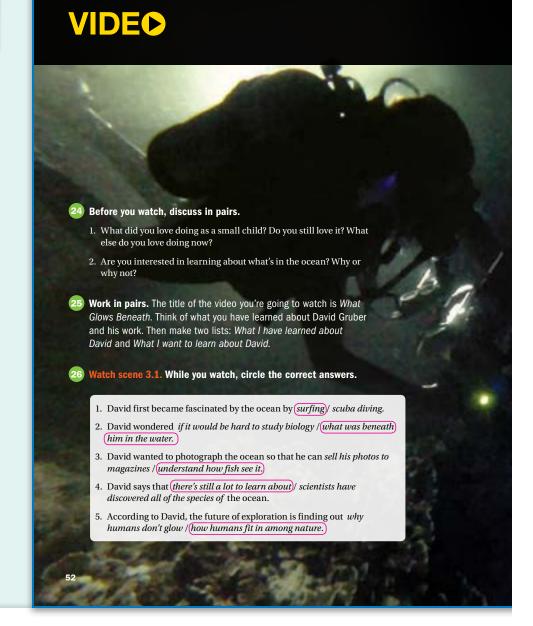
Content Vocabulary coral, coral reefs, fluorescence, scuba diving

Resources Video scene 3.1 (DVD/ Website/CPT): Online Workbook: CPT: Video

Materials drawing materials, large note cards

Answer Key 27

- 1. surfing
- 2. They both take place in the water.
- 3. He studies in places where there is no natural light.
- 4. They allow him to see the ocean the same way the fish see it.



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? 28 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? 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.

Be the Expert

Teaching Tip

It's often better to assign partners than to let students choose their own, especially when students are new to a class. Listen to partners as they work together, and help them treat each other with respect. Keep partner work interesting by having students change partners once or twice during lessons.

Formative Assessment

Can students

· discuss David Gruber and his underwater research?

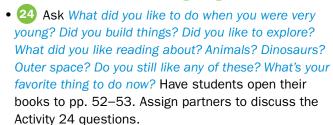
Ask How might understanding how sea creatures glow help humans? What dark places might people be able to explore using bioluminescent substances?

Online Workbook Video

Before You Watch 24 25





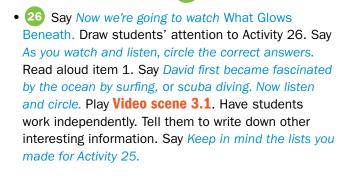


- After pairs have talked for several minutes, ask *Did* anyone spend time at the ocean when they were young? What did you like about it? Did you ever think about what creatures were in the water with you? Have partners talk about what they'd like to learn about the ocean.
- 25 Say Look at the photo. Read the caption aloud. Then read Activity 25. Ask What are some things we've learned about David Gruber so far? (He's a marine

biologist, he works in the dark at the bottom of the ocean, he studies bioluminescence and sea creatures that glow.) Write students' responses on the board. Then have partners work together to make their lists.

While You Watch 26





• If students have trouble following the video or understanding the text, pause the video and allow them to ask questions or reread the text. Try replaying the video with and without sound, and have students describe and comment on what they see. When they've completed Activity 26, review the answers as a class.

After You Watch 27 28 29







- 27 Pair students. Remind them to use information from the video to answer the questions. Tell them to review their answers to Activity 26 before they begin.
- 28 Read aloud the activity directions. Think about pairing less-fluent students who would benefit by helping each other with the language. Say Talk about the animals in the video. Then talk about other sea creatures you've seen. Tell students they can draw pictures if it helps them describe the animals.
- Say You may want to use a Venn diagram to help you discuss similarities and differences between how the animals look and act and where they live. If necessary,

begin one on the board. Circulate as students talk to provide assistance.

- 29 Make sure students know what scuba diving is. Explain that's how David does his exploring. Have students describe the special suits and equipment divers use and why they use them.
- Pair students who choose the second option. Say Remember the information you wanted to learn about David. Use what you wrote in your list and information from the video to write interview questions and answers.
- Put students who choose the third option into small groups. Tell them to discuss who will research which animal. If students choose the same animal, you could replay the video to remind them of different creatures. You could ask someone to list the name of each animal as they watch.

108 109 Unit 3 Video

Grammar 2

Objectives

Students will

- use at, on, and in to say when things happen.
- differentiate between at, on, and in.

Content Vocabulary market stalls, regularly

Resources Online Workbook/ Workbook pp. 30-31: Worksheet 1.3.5 (Teacher's Resource CD-ROM/ Website): TR 44: (Audio CD/Website/ CPT): CPT: Grammar 2

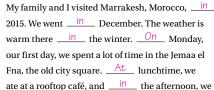
Materials tape or glue, large note cards

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

30 Read. Complete the paragraph with at, on, or in.





watched some dancers. At five o'clock in the evening, we watched the day market stalls leave and the night market stalls arrive. At 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 | |
| | |
| | |
| 4. March | |
| 5. weekend | |
| 6. 8:00 a.m. | |

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



Go to p. 159



54

Warm Up

- Activate prior knowledge Say I got up this morning at 6:30. Ask several students What time did you get up? Write at 6:30 on the board. Underline at. Say On Saturday, I usually do the laundry. Write on Saturday. Underline on. Say My birthday's in (May). Write in (May). Underline in. Ask several students What month is your birthday in?
- Say In Unit 1, we learned to use in and on to talk about location: in Guatemala, in the ocean, on an island. Point to the board and say We also use in and on, as well as at, to tell when things happen.

Present

• Have students open their books to p. 54. Play TR: 44. Have students listen and read along silently. Then replay TR: 44 while students read aloud along with the audio.

- Say There are rules for using at, in, and on when we talk about times. Using the examples at the top of p. 54, say We use at with exact times and certain times of the day. We use on with the days of the week and specific dates. We use in with months, years, seasons, and certain times of the day. We say in the morning, in the afternoon, and in the evening. But, there is one exception—we say at night.
- Write these sentence frames on the board:

| I get home from school (exact time) |
|--|
| I do my homework (time of day) |
| I practice / hang out with my friends (day of the week) |
| I like to swim / go snowboarding (month or season) |

• Point to the board. Say *Talk to a partner about when things happen.* Take turns. Use at, in, and on. Tell students that, for the third sentence, they should say any activity they do regularly, or usually, on a specific day of the week. For the last sentence, they should name something they do in a particular month or season.

Practice 30 31



- 30 Say Now you're going to read a paragraph about a family trip. You'll fill in each blank with at, in, or on. Let's do the first one together. Read the sentence aloud: My family and I visited Marrakesh, Morocco, at? in? or on? 2015. Say 2015 is a year. Look at the chart. What's the correct word? (in) Have students work independently. Review the answers as a class.
- 31 Pair students and have them read the directions and sample answer. Say Write complete sentences Then take turns reading your sentences to your partner. Write some prompts, such as the following: go to the market, go to the library, practice or play an instrument, visit a relative, and feed the dog. Circulate and listen. Call on partners to read their sentences to the class.

Apply 32

• 32 Pair students with a new partner. Have them cut out and assemble the cube on p. 159. Read the directions and the speech balloon. Say Roll the cube. Then say a sentence that is true for you, using the word at the top of the cube. You get one point for each correct sentence. Keep track of the time words you both use, such as evening, summer, December, and so on. If you repeat a word, you lose a point. Remember to be polite. The person with the most points at the end wins.

Extend

- Pair students again to play a new version of the game. Demonstrate with a partner. Roll the cube. Say The word is (at). I'll ask, "What did you do last night at 8:00?" Prompt your partner to answer with a complete sentence, including the phrase at 8:00. Say Now it's my partner's turn to roll and ask me a question. Have partners play until they've each asked and answered questions with all three prepositions.
- Distribute Worksheet 1.3.5 for further practice with prepositions you use to tell when things happen.

Wrap Up

• Divide the class into teams of three. Give each team three cards: an at, an in, and an on card. Give one to each student on the team. Say I'll call out an expression of time. You hold up the card with the right word to use with that expression. I'll call the first student who holds up a card. If it's the right one, that team gets a point. Explain that if students prompt one another, their team loses a point. The team with the most points wins.

Be the Expert

Grammar in Depth

Other rules for using the prepositions in and on include the following:

- Use for decades or centuries: in the 80s, in the nineteenth century
- Use with a period of time in the future to tell what will happen after that period of time: in a few weeks, in a couple of months

• Use for specific days and holidays: on Tuesday, on Christmas Day, on the first day of Diwali.

Teaching Tip

When the class begins an activity, listen for students who are doing the activity correctly. The first time you hear a correct sentence, have the class pause the activity. Call on the student to share his or her example or say that student's sentence aloud. Hearing a correct example will help other students who are struggling to begin an activity.

Formative Assessment

Can students

• use at, on, and in to tell when things happen?

Ask students to tell what they regularly do after school and when they do it. They can use exact times or times of the day.

• differentiate between at, on, and in? Have students complete this sentence with at, on, or in: David Gruber does most of his ocean research _____

Workbook For additional practice, assign Workbook pp. 30-31.

Online Workbook Grammar 2

Writing

Objectives

Students will

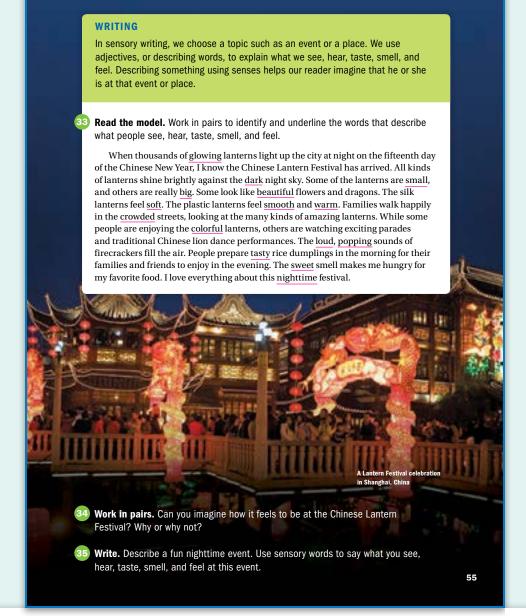
- apply elements of descriptive writing.
- use describing words.
- analyze a model of sensory writing.
- produce a paragraph of descriptive writing, including sensory words.

Writing Description of an event

Academic Language sensory writing

Content Vocabulary dragons, dumplings, nighttime

Resources Online Workbook/Workbook p. 32; Process Writing Worksheets 1-5, Genre Writing Worksheet: Description (Teacher's Resource CD-ROM/Website); CPT: Writing



Warm Up

- Activate prior knowledge Say In Unit 1, you wrote a paragraph about a beautiful place. We talked a lot about using describing words to help your readers experience the place in their minds—how the place looked, how it sounded, how it smelled. Sight, sound, smell. Ask What do these words have to do with? (the senses) Who can name all five senses? (sight, sound, smell, taste, touch).
- Say Talk to the person next to you. Describe something you're wearing—your shirt, skirt, shoes, a piece of jewelry. Tell the color, the design, how the material feels. Does it make a sound? Is it shiny? Is it rubbery? Take turns. When students have finished, ask Did your partner describe the article well? Could you see it in your mind? Are there other words your partner could have used?

Present

• Say Open your books to page 55. Have a student read the text in the green box. Then write the words for the five senses. Say Let's write some describing words for each sense. Begin the chart below and have students help you fill it in.

colorful, dark, shiny sight sound loud, whispery, screechy taste yummy, sweet, sour touch soft, rough, smooth smell fresh and clean, like flowers, like burnt

Read the Model 33 34



- Say Now we're going to look at a model of sensory writing. First, look at the photo and read the caption. Have students predict what they think the text will be about. Ask What do you think the text will be about?
- 33 Have students read the text silently. Say Read through the text once. Try to imagine being at the festival. What do you see, hear, taste, and smell?
- **Model** When partners have finished underlining words, model analyzing one of the descriptions. Say Right away, I read the words thousands of glowing lanterns. That's a good description. Ask Which of the five senses does it relate to? (sight)
- Ask Would the phrase lots of lanterns work as well? Guide students to see that the words thousands and glowing help readers to see in their minds a scene of so many lanterns they would be difficult to count, filling the night sky with a beautiful light. Have all of the pairs review what they underlined and discuss how well they think the descriptions worked.
- 34 When students have finished reading, assign partners. Have them read the text again and do Activity 34 together.
- Worksheet If your students need a reminder of the elements of the Descriptive Writing genre, you may want to hand out **Genre** Writing Worksheet 7 (Description) and review it together before proceeding to Activity 35.

Plan 35



- 35 Say It's time to plan your own writing. Read the Activity 35 directions. Your topic is describing a fun nighttime event. Ask What are some events that occur at night? Write some helpful student responses on the board. Suggest others, such as family or cultural nighttime celebrations, New Year's Eve events, Carnival, the Thai lantern festival of Yi Peng, or Christmas Eve.
- Say Your next step is Prewriting. Let's review. What are some ways we do prewriting? (brainstorm, freewrite, make lists, use a graphic organizer, use sentence starters) Say Now decide what you want to use. If you have time in class, allow students to work on this step. If not, assign it as homework. If students have workbooks, remind them to use Workbook p. 32 for writing support.

Be the Expert

Writing Support

Describing an event Describing an event is different from describing a person or place. There's usually a lot going on during an event that you want the reader to experience. You need to convey a sense of movement and unfolding action by using exact, vivid verbs such as feasted instead of ate, battled instead of played, charged instead of ran, gawked instead of looked at.

Good organization will help, too. Students may want to consider rank ordereither describing their favorite part of the event first and progressing to their least favorite, or starting with their least favorite part and progressing to their favorite.

Teaching Tip

Create a display of descriptive words for each of the five senses. Add new sensory adjectives to it from the Target Vocabulary in each unit. For example, sensory words based on the Unit 3 vocabulary include dark, glowing, patterned and sleepy. Encourage students to practice using the words in their descriptive writing.

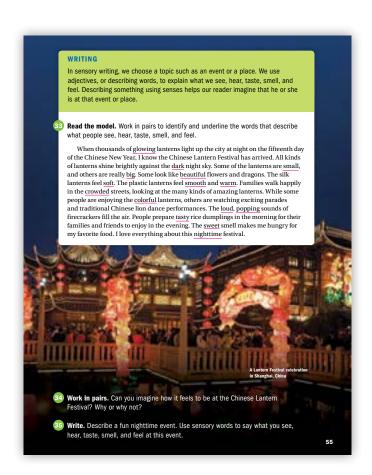
Related Vocabulary

pagoda

Workbook For scaffolded Writing support, assign Workbook p. 32.

Online Workbook Writing

112 113 Unit 3 Writing



- Worksheets If your students need a reminder of any
 of the steps of process writing, you may want to hand
 out Process Writing Worksheets 1–5 and review them
 together.
- **Workbook** Refer students to Workbook p. 32 to help them organize and plan their writing.

Write 35

• 35 After students have finished their Prewriting, have them work on their first drafts.

Revise

• After students have finished their first drafts, have them review their writing and think about their ideas and organization. Have them quietly read their drafts aloud to themselves. Have each student consider the following: Is the subject of the description easily identifiable? Does the description develop in a logical way? What seems good? What needs more work?

Edit and Proofread

 Have students consider elements of style, such as sentence variety, parallelism, and word choice.
 Then have them proofread for mistakes in grammar, punctuation, capitalization, and spelling.

Publish

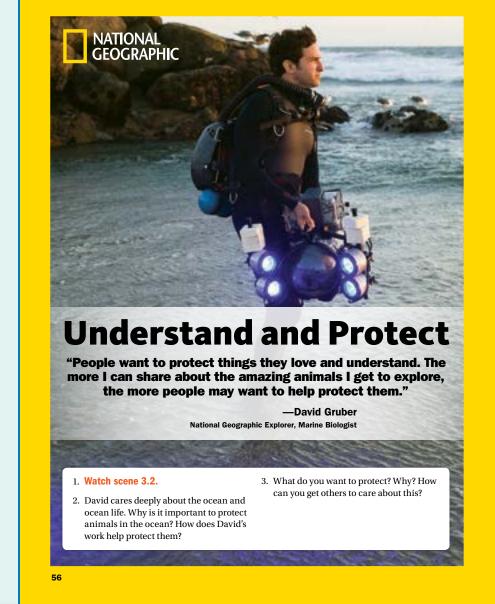
 Publishing includes handing in writing pieces to the teacher, sharing work with classmates, adding pieces to a class book, displaying pieces on a classroom wall or in a hallway, and posting on the Internet.

Writing Rubric

Use this rubric to assess students' writing. You can add other aspects of their writing you'd like to assess at the bottom of the rubric.

- 4 = Excellent
- 3 = Good
- 2 = Needs improvement
- 1 = Redo

| | | ာ | 4 |
|--|------|---|---|
| Writing Student organizes the description in a way that makes sense and uses a variety of describing words and phrases that appeal to all the senses. | | | |
| Grammar Student uses non-action and action verbs correctly; student uses <i>at, in,</i> and <i>on</i> correctly. | | | |
| Vocabulary Student uses a variety of word choices, ncluding words taught in this unit. | | | |
| | | | |



Mission

Objective

Students will

 discuss the importance of learning about and protecting the world's resources.

Resources Video scene 3.2 (DVD/ Website/CPT); Worksheet 1.3.6 (Teacher's Resource CD-ROM/ Website); Online Workbook: Meet the

Explorer; CPT: Mission

Be the Expert

Teaching Tip

It's easy for students to become overwhelmed when listening to long sentences and paragraphs in English. Try to keep listening activities brief so students have time to process and ask questions about what they've heard. Pause longer audio recordings whenever necessary to check for comprehension.

Online Workbook Meet the Explorer

Mission

- Say Turn to page 56. Read aloud the Mission. Then call on a student to read aloud the quote from David Gruber. Ask What does David mean when he says people want to protect things they love and understand? Discuss with students how people sometimes think the things they don't know much about or understand are dangerous, so they don't care about protecting them. Ask What amazing animals do you think David wants to protect? (the unusual bioluminescent creatures at the bottom of the ocean)
- Activity 1 Say Now let's watch a video about David Gruber. Have students watch Video scene 3.2. Tell them to pay attention to David's research at the bottom of the ocean.

- Activity 2 Pair students. Remind them of David's
 discoveries about unusual marine animals and
 how they use bioluminescence in their dark world.
 Tell them to review the reading on p. 51. Ask Does
 learning about these animals make you want to protect
 them? What might yet be discovered at the bottom of
 the ocean?
- Activity 3 Have students consider the things they care about. Ask Perhaps there's some animal or habitat you want to protect? Is there something in the world that's endangering the people or things you care about? How can you protect them? Do you have some knowledge or information that might help?
- Worksheet Assign Worksheet 1.3.6. Explain that students will use the worksheet to think and write about David Gruber and his ideas about protecting marine environments.

114 Unit 3 Mission **115**

Project

Objective

Students will

 choose and complete a project related to the extremes of light and darkness.

Content Vocabulary blog entry, organisms

Resources Assessment: Unit 3 Quiz; Workbook p. 33 and p. 92: Worksheet 1.3.7 (Teacher's Resource CD-ROM/ Website): CPT: Make an Impact and **Review Games**

Materials art supplies, camera with video capability

Assessment Go to p. 256.

Unit Review Worksheet 1.3.7 Workbook Assign pp. 33 and 92. Online Workbook Now I Can

Prepare

- Activity A Have students research bioluminescence and biofluorescence. Tell them that, along with photos and descriptions of creatures, objects, or products they read about, they should include scientific information they discover in their research. Tell them to title their posters and include a message about the importance of marine research.
- Activity B Explain that just as places on Earth, like northern Norway, are dark for a long time in the winter, they are also light for a similar amount of time in the summer. The Polar Night in winter is balanced by a time called the Midnight Sun in summer.
- Have students research various blogs in order to identify the elements you usually find in a blog. Explain that their blog entries can be done on paper to be shared with classmates or shared online via a school website.

Make an Impact A Design a poster. Research animals or plants that glow in the dark. Find out how

· 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. · 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. • Activity C Help students brainstorm locations that

might provide an interesting day and night contrast (e.g., a local pond or someplace that is brightly lit up at night).

Share

- Schedule time for students to present their final products to the class. Allow time for students to ask questions, provide feedback on the posters and videos, or otherwise comment on their classmates' research.
- Modify Help students simplify a project by eliminating one of the options or steps. For example, search for appropriate websites for students to use for their research. Help them locate and print pictures of sea creatures that glow and scenes from places that have midnight sun in summer. Arrange for adult supervision for those students wishing to video a place at night.

Student Book Audio Script

TR: 32 Listen and Read 2 See Student Book pp. 44–45.

TR: 33 Learn new words.

active Most people are active during the day. We turn on the lights when it gets dark. dark

darkness We couldn't see anything in the darkness of

the night.

festival Many places celebrate winter with festivals

and music.

go to sleep It's easy to go to sleep when you're tired. headlight A car's headlights help the driver to see at

horizon The sun sets on the horizon.

light up The sun lights up the sky during the day. People who live in the far north often have north

cold winters.

Many birds fly south for the winter. south sunrise There was a beautiful sunrise early this

The sunset was beautiful this evening. sunset

TR: 34 5 In central Greenland there is no sunset for nearly eight weeks a year, from the end of May until the end of July. There's daylight 24 hours a day. During this time, people can enjoy their favorite outdoor activities in the middle of the night, without even turning on the streetlights! Some people find it difficult to sleep during this time, and losing sleep isn't healthy. However, most people prefer summer to winter, when there are 24 hours of darkness.

TR: 35 5

Learn new words.

daylight There is daylight between sunrise and

healthy To be healthy, you should eat well and

exercise.

streetlight The streetlights shine brightly at night.

TR: 36 Speaking Strategy See Student Book p. 47.

on nocturnal animals. **S1**: Really? What does nocturnal mean? **\$2**: It means something that sleeps during the day and is active at night. Actually a lot of animals are nocturnal. Look at this kinkajou. **S1**: A kinka – what? How do you pronounce it? **\$2**: I think you say kin-ka-jou. **\$1**: OK, and how do you spell that? **\$2**: It's spelled k-i-n-k-a-i-o-u. Kinkajous are nocturnal animals. They live in the forests in Central and South America. They spend most of their time in trees. **\$1**: I've never seen one. Have you? **\$2**: No. That's probably because we're not nocturnal, and we don't live in trees!

TR: 38 Grammar See Student Book p. 48.

TR: 39 11 Do you enjoy sleeping? People need sleep, but many people also need to work. Some people are working at night when many of us are sleeping. Think about this. It's 4 a.m. While you're sleeping, doctors are helping patients, news reporters are driving to work, and bakers are baking bread.

A lot is happening at night in the natural world too. We know that many animals and flowers are busy at night. Think about this. It's 11 p.m. While owls are flying around and are searching for food, flowers are opening and are filling the air with sweet smells. Insects that like to eat at night are attracted to the smell and go to the flowers to eat.

You may be asleep at night, but much of the world around you is awake!

TR: 40 14 Time zones exist because the world is so big. While the sun is rising on one side of the world, it's setting on the other side. There are 24 time zones across the world. One time zone is usually one hour of time difference. The cities of Anchorage, Alaska, in the United States, and Wellington, in New Zealand, have 21 time zones between them. Anchorage is west of Wellington so it's earlier there. Wellington is east of Anchorage, so it's later there. When it's 11:00 p.m. on Sunday in Anchorage, it's 8:00 p.m. on Monday in Wellington. People in Anchorage are asleep, getting ready for Monday. But, at that same moment, people in Wellington have almost finished Monday.

TR: 41 14

awake

Learn new words.

asleep Most people are asleep at midnight.

Most people are awake at 10 o'clock in the

morning.

east The sun rises in the east. time zone The world has 24 time zones. The sun sets in the west. west

TR: 42 19 Learn new words.

dawn Dawn is when the day begins.

fascinate Fish that make their own light fascinate me.

glow We can easily see animals and plants that

glow in the dark.

observe Scientists observe ocean life with special

equipment.

pattern Some fish have interesting patterns on their

TR: 43 While you read. 20 See Student Book pp. 50-51.

TR: 44 Grammar See Student Book p. 54.

117 **116** Unit 3 Project Audio Script