## **Contents**

## Level **V**

Why Guided Reading Short Reads?
Choosing Texts and Text Complexity 5
Moving Students Through the Stages of Reading Development 6
Supporting English Language Learners
Using the Guided Reading Short Reads Lessons
Almanac Excerpt Inventors and Inventions
Essay Viking Voyages12
Guidebook Excerpt Deepest Lake and Highest Waterfall 14
How-to The Acid Effect
Journal Excerpt The Journal of Meriwether Lewis 18
Letter A Letter From Rachel Carson
Magazine Article Australia's Amazing Animals22
Newspaper Article (Historical) San Francisco Earthquake
Question and Answer Book Excerpt Trapped in Time
Speech Conservation as a National Duty
Level V Lessons at-a-Glance
Bibliography

## **Almanac**

Level V

**Text Type:** Almanac

Summary: Imagine a life without cell phones and airplanes. These pages offer facts about inventors who have changed our world.

Themes/Ideas: learn who invented several objects people use every day; understand how an idea can become an invention and how one inventor may build on others' discoveries

**Informational Text Features:** section headings, photos, bullet list, time line

#### **Academic Vocabulary:**

- patent: a document that credits someone as the inventor of a device and gives that person the legal right to be the only one to produce and sell an invention
- phonograph: a device that plays music by rotating a disc or cylinder that reproduces recorded sounds

#### **Domain-Specific Vocabulary:**

- incandescent: giving off light when heat is applied
- radar: a device that uses radio waves to locate objects and determine how fast they're moving
- magnetrons: tubes often used in microwaves that give off short bursts of high power

## **Inventors & Inventions**



Focus Question: How do ideas become inventions?

### **First Reading**

Read the title noting that these pages are from an almanac. Point out the text features, including the playful headings, time line, and photographs. Have students read through the text on their own. Then discuss the main ideas.

#### **Guided Close Reading**

**Text Structure** Reread the first paragraph. How does it prepare readers for the rest of the information given in the text? **●** 

**Connect Ideas** "Flip a Switch and Say Thanks" and "Phoning It In" each mentions a pair of inventions. What is similar about the pairs of inventions? ① ②

**Think Aloud** In the first section, the author explains Franklin's experiments with electricity and mentions that it led to Edison's invention of an incandescent light bulb. Likewise in the second section, the author explains that Alexander Graham Bell invented the telephone 100 years before the cell phone was invented. The connection is that some inventions lead to others.

**Text Features** The author divides information into different sections. How do the section headings invite the reader to read the text within each section? ①- ⑤

**Key Ideas and Details** How were the microwave and the Popsicle invented? What do these examples tell you about the way some inventions come to be? **(4)** 

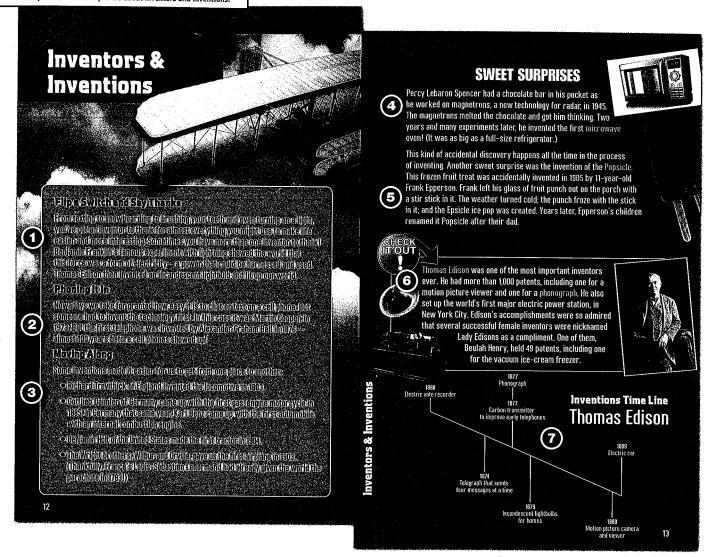
**Think Aloud** Spencer got the idea for the microwave while he was working on something else. Epperson invented the Popsicle by accident. These examples tell me that sometimes inventors find inspiration in unlikely places and that not everything is invented on purpose.

**Draw Conclusions** To get a patent, an inventor has to prove that he or she was the first person to create an invention. When an inventor holds the patent on an invention, no one else can make it or sell it. Based on the information given in the almanac, why is it important to get a patent on something you've invented? **6**)

Words and Phrases in Context The author writes that female inventors were called "Lady Edisons." What does this nickname mean, and why was it considered a compliment? •

**Text Features** Review the information about Thomas Edison in the main text, and examine the "Inventions Time Line." How do the text and time line work together to help you to appreciate Edison's accomplishments as an inventor? ① ② ②

An almanac is a reference book that gives current facts and stats about different subjects. These excerpts are about inventors and inventions.



## **Revisit the Text: Ideas for Discussion**

Share and discuss the following questions to sum up your exploration of the text. You may wish to use the questions as prompts for a Turn and Talk activity before your discussion. Encourage students to support their thinking and ideas with evidence from the text.

- An almanac gives facts and statistics about different topics. Why is it important that the author included section headings, photos, and a time line in this almanac excerpt?
- The author includes several examples of important inventions, but there are many more he or she could have listed. Why do you think the author chose these examples?
- What new information did you learn about inventors and inventions? Which fact was most surprising? Why?

## **Write About Reading**

Have students choose either one of the following options for writing, or do both.

- How do inventors turn ideas into inventions? Use details from the text to write a short summary of how one of these inventions came to be. (Informative/Explanatory)
- Which of the inventions listed in the almanac excerpt is the most important? Use details from the text to write a well-developed opinion paragraph supporting your claim. (Opinion)

#### **Connect to the Internet**

To learn more information about Thomas Edison, direct students to the following websites: www.nps.gov/edis/forkids/a-brief-biography-of-thomas-edison.htm and http://memory.loc.gov/ammem/edhtml/edbio.html.

## **Essay** Level V

Text Type: Essay

**Summary:** This essay traces the Vikings' exploration of North America in the late tenth and early eleventh centuries.

Themes/Ideas: recognize why the Vikings voyaged to North America; understand why the Vikings were unable to keep a settlement in **North America** 

**Informational Text Features: map** 

#### Academic Vocabulary:

- raiding: attacking suddenly
- lush: filled with plant life
- accounts: descriptions of events

#### **Domain-Specific Vocabulary:**

- population: the number of people in a place
- settlement: a community established in a previously underdeveloped area
- native: originating in a certain location
- ruins: objects or buildings that remain after something is destroyed or decays

## Viking Voyages



Focus Question: Why did the Vikings explore parts of North America, and what did they find in that new world?

#### **First Reading**

Read the title and preview the text, noting that this is an essay about the Vikings' exploration of North America. Point out the map included with the essay. Explain that students can use the map to trace the path of the voyages. For the first reading, have students read through the essay on their own. Then discuss its main ideas.

### **Guided Close Reading**

Key Ideas and Details In the first paragraph, the author mentions that Leif Eriksson explored North America some 500 years before Columbus. Why is this significant? 🚺

Think Aloud This is significant because most people consider Christopher Columbus the first European to discover the New World. Because Eriksson traveled to the continent of North America 500 years before Columbus, he is really the first European to discover the New World.

Vocabulary What does the use of the word raiding communicate about the Vikings? How is this supported by other details in the essay? What about Vikings who were not raiders? What did they do? 2 3

Key Idea and Details What did Leif Eriksson name the land he explored? 5



Connect Ideas What did Heijolffson notice about North America's land on his trip to Greenland? Why would the Norse have found this appealing? 2) 4

Make Inferences What threatened the Norse settlement on Vinland? How does this go against other ideas about the Vikings expressed in the essay? What can you infer about the Vikings based on these contradictions? 2 0 3

Think Aloud Attacks by native people threatened the Norse settlement in Vinland and led to the Vikings' retreat. Because the Vikings robbed, killed, and enslaved Europeans, it seems surprising that they were threatened by these attacks.

Key Ideas and Details Why was the 1960 discovery of Norse ruins such an 

Text Structure This essay uses time order as its main text structure. What does the use of this text structure help to communicate about the Vikings' exploration of North America? How does the structure affect readers' interest? 2 - 9

Text Features Look at the map of the Vikings' exploration routes. How does the map help you understand why the Norse explored North America? 10

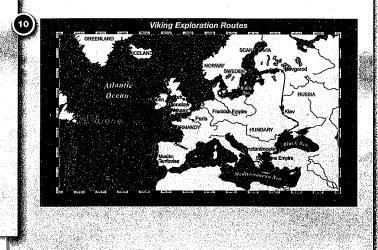
#### Viking Voyages

- A thousand years ago, Leif Eriksson, a Norse chief, sailed to North America.

  His voyage marked the first time that Europeans had set foot in the New
  World. This was around 1000 A.D.—almost 500 years before Columbus.
- The Norse came from Scandinavia, which includes the present-day countries of Norway, Sweden, and Denmark. The Norse made their living by farming, fishing, and raising cattle. But by the 800s, population growth had caused a shortage of farmland. So the Norse looked to the sea. Norse warriors set out on raiding trips. They were called Vikings, which means "sea raiders." The Vikings attacked villages along the coast of Europe. They robbed and killed and took slaves back home.
- But not all Vikings were warriors. Some were explorers and settlers. By the end of the 900s, Vikings had settled in Iceland and Greenland.
- How did the Norse reach North America? A Norse trader named Bjarni
  Heijolffson was blown off course while sailing from Iceland to Greenland in
  985. He saw a lush new land. He reported his discovery when he finally got
  to Greenland.
- When Leif Ertksson heard about this new land, he decided to see it for himself. He set sail with a crew of 35 men in about the year 1000. They set out west and sailed across the North Atlantic Ocean. Eventually, they came to a land that was covered in beautiful trees. They landed and built houses for the winter. Then, the Norsemen began to explore the new land. When they discovered grapes growing in abundance, Leif Eriksson named the land Vinland.
- In the spring, Leif Eriksson returned to Greenland to report his discovery.

  The following year his brother Thorvald headed back to Vinland with a crew of around 30 men. They found the settlement Leif Eriksson's crew had built. They also found three strange mounds on the beach. These turned out to be nine native people, hiding under three canoes.

- Today, historians believe that the people may have been either Algonquin or Inuit. The Norsemen killed eight of the native people, but the ninth escaped. He returned later that night with others and attacked the Norse.
- This became a pattern in the early attempts by the Norse to settle the New World. Eventually, they left Vinland and retreated to Greenland. The Norse did not have the resources to deal with the native people.
  - For many years, experts were not sure if the Norse had really made it to the New World. Ancient Norse accounts described voyages to what seemed to be North America, but there was no real evidence to show they had come. Then, in 1960, Norse ruins were discovered in Newfoundland, Canada. Finally, there was proof that the Vikings had indeed been to our side of the Atlantic Ocean!



### **Revisit the Text: Ideas for Discussion**

Share and discuss the following questions to sum up your exploration of the text. You may wish to use the questions as prompts for a Turn and Talk activity before your discussion. Encourage students to support their thinking and ideas with evidence from the text.

- Reread the second paragraph of the essay. How is it different from the other paragraphs? What purpose does it serve in the essay?
- The author includes the meaning of the Vikings' name, "sea raider," which is how many people think of the Vikings. What other ideas about the Vikings does this essay introduce?
- This essay offers a new narrative for an important part of history—the first Europeans in the New World. What does this tell you about our understanding of history?

### **Write About Reading**

Have students choose either one of the following options for writing, or do both.

- What conditions led to the Norse's exploration of the New World? (Informative/Explanatory)
- Do you think that the story of Eriksson's exploration
  of the New World will become as common or more
  common than the story of Columbus's arrival in the
  New World? Use details from the essay to support your
  answer. (Opinion)

### **Connect to the Internet**

To read more about the Vikings' exploration of North America, go to www.mnh.si.edu/vikings/index.html or www.pc.gc.ca/eng/lhn-nhs/nl/meadows/natcul.aspx.

## Guidebook

Level V

Text Type: Guidebook

Summary: These pages from a guidebook provide interesting and practical information for visitors to Crater Lake and Yosemite Falls.

Themes/Ideas: learn the history of and basic facts about Crater Lake and Yosemite Falls; understand information for visiting Crater Lake and Yosemite Falls

Informational Text Features: headings, maps, photos, bold text, captions, text boxes

#### **Academic Vocabulary:**

- breathtaking: very surprising, great
- estimate: to judge a value based on experience, not scientific measurement
- majestic: grand, breathtaking
- retreating: going away or backing up from something

#### **Domain-Specific Vocabulary:**

- caldera: a large hole caused by the collapse of a volcano
- crater: a hole around the opening of a volcano
- cascades: steep waterfalls
- glaciers: large, slow-moving bodies of ice

# Deepest Lake and Highest Waterfall



**Focus Question:** How were Crater Lake and Yosemite Falls formed, and how do visitors get to experience them?

## **First Reading**

Read aloud each page's title and preview the text, noting that these pages are from a guidebook. Point out the two maps and location information for each feature. Have students read through the text on their own. Then discuss the things readers can learn about from reading these guidebook pages.

### **Guided Close Reading**

**Text Features** How is the text organized on the first page? How do the main sections help the reader understand the topic and find information? Why is this type of organization useful for a guidebook? ①-④

**Key Ideas and Details** How does Crater Lake compare in depth with other lakes in the United States and in the world? Describe how Crater Lake was formed. What natural events preceded it? What is unique about the water in Crater Lake? 2 3

**Author's Purpose** Why does the writer provide photos, captions, and "Fantastic Facts"? How do they add to the reader's information? How do they support the purpose of a guidebook? **5 3** 

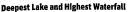
**Photos and Text** What information does the photo of Crater Lake provide? What additional information does the caption provide? How does the photo help readers to better understand Crater Lake? **5** 

**Think Aloud** The author uses the words majestic and breathtaking to describe Yosemite Falls. In a caption, the author gives an amazing comparison, telling us that the falls are as tall as the Willis Tower (in Chicago) and the Eiffel Tower (in Paris) combined.

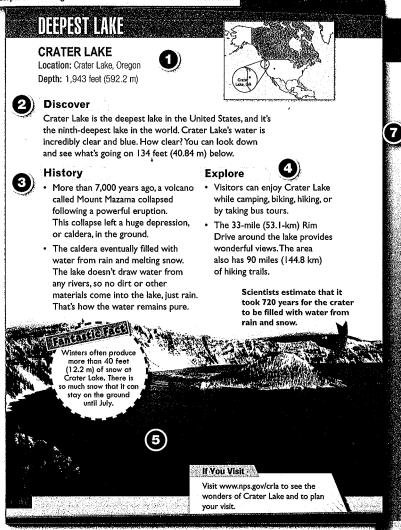
Words and Phrases in Context The author uses the word estimate twice in the text. What does estimate mean? Why does the author use the phrase "Scientists estimate" in both of these contexts? (5) (3)

**Think Aloud** Estimate means "to make an approximate guess based on experience rather than direct study." The author says "Scientists estimate" because scientists are not able to measure exactly how long Crater Lake took to fill or exactly how much water goes over Yosemite Falls every second.

Make Inferences Based on the features on these pages, what conclusion might you draw about other pages in the guidebook from which these pages are taken? What kinds of information would you expect to find? ① - ③



A guidebook is a reference book that you carry with you. These excerpts are from a guidebook about dramatic water sites in the USA.



### HIGHEST WATERFALL

#### **YOSEMITE FALLS**

**Location:** Yosemite National Park, California **Height:** 2,425 feet (739.1 m)

#### Discover

The majestic Yosemite Falls is really three separate falls. The Upper Fall is 1,430 feet (435.9 m) high. The middle cascades are 675 feet (205.7 m). The Lower Fall is 320 feet (97.5 m). They all add up to one of the most breathtaking natural sites in the country.

#### History

 Millions of years ago, retreating glaciers dug the falls and Yosemite Valley out of rock. The flowing water continues to change the shape of the falls.

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#### Explore

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that 2,400 gallons (9,085 L) of water

go over the falls

every second.

Visit www.nps.gov/yose for

### **Revisit the Text: Ideas for Discussion**

Share and discuss the following questions to sum up your exploration of the text. You may wish to use the questions as prompts for a Turn and Talk activity before your discussion. Encourage students to support their thinking and ideas with evidence from the text.

- What different text features does the author use to convey information? How do these features help organize the text?
- Why is Crater Lake's water so clear and blue? Would the water under Yosemite Falls be as clear? Why or why not?
- Both Crater Lake and Yosemite Falls are located in national parks. Why should sites like these be protected? How can such sites benefit people?

### **Write About Reading**

Have students choose either one of the following options for writing, or do both.

- Compare and contrast Crater Lake and Yosemite Falls using a Venn Diagram. Compare and contrast details such as type of feature, location, history, and age. (Informative/Explanatory)
- Based on the text, would you rather visit Crater Lake or Yosemite Falls? Why? Support your opinion with information from the text. (Opinion)

#### **Connect to the Internet**

To learn more information about national parks near you, have students visit www.nps.gov/findapark/index.htm and click your state.

## **How-to**

Level V

Text Type: How-to

Summary: Read these pages to learn about two science activities that demonstrate the effects of acid on the materials that make up bones and teeth.

Themes/Ideas: understand how acid acts on eggshells; explain the relationship between scientific concepts

Informational Text Features: text box, bulleted lists, photographs, numbered steps

#### **Academic Vocabulary:**

- react: to behave in a certain way after something happens
- inflates: fills with air or gas
- · observe: to watch, study
- flexibility: ability to bend without breaking

#### **Domain-Specific Vocabulary:**

- acid: chemical compound that dissolves in water and has a low pH level
- compound: something formed of multiple parts or elements
- osmosis: movement through a membrane that allows some but not all molecules through
- acidity: degree or level of acid in a material

## **The Acid Effect**



**Focus Question:** How can common household objects help show the effects of acid on bones and teeth?

### **First Reading**

Read aloud the title and first paragraph. If needed, review important science concepts with students, such as *acid, chemical reaction,* and *dissolve/solution.* Call attention to the text features on these pages and ask students to consider how the text features help them determine the genre of the text. Note that this how-to includes materials and numbered steps describing the process of a science experiment. For the first reading, have students read the card independently. Then discuss the central ideas.

### **Guided Close Reading**

Main Idea and Details What is the main idea of this text? How do both experiments contribute to the main idea? 1 - 6

**Connect Events** What is the relationship between calcium carbonate and bubbles that form on the eggshell and bones? What words or phrases in the text help clarify that relationship? ①—③ ④

Words and Phrases in Context Look at Step 7 in the first experiment. Why does the author describe the egg as "rubber"? Is the egg actually made of rubber? How do you know? 3 4

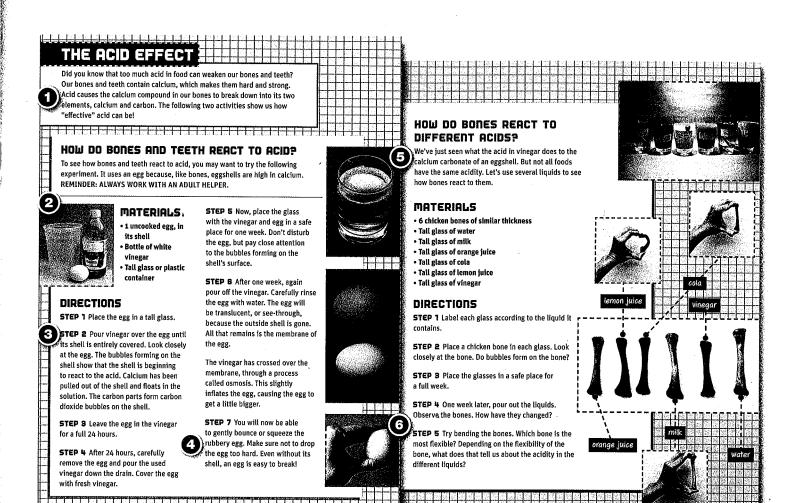
**Text Features** What text features help you identify the text type? What features help you determine how each section fits within the overall structure? Why are numbered steps a good structure for a how-to text or an experiment? **2** • **4** 

Think Aloud The numbered steps identify the text as a how-to. Each activity begins with a heading. The first activity uses blue boldface type, and the second activity uses orange boldface type. The numbered steps are important because a how-to or experiment needs steps to be followed in order to work.

Photos and Text Look at the photographs on the front of the card. How is the first photo of the egg different from the last? How does that difference show the effect of the acid? 2 4

Connect Ideas What questions does the author ask at the end of the second activity? What information in the text can you use to help you answer those questions? ①- ⑤

Think Aloud The author asks about the flexibility of the bones soaked in various liquids. "Which bone is the most flexible? . . . what does that tell us about the acidity in the different liquids?" I can use information from the introduction and first activity about the acidity of vinegar to help answer the questions about the bones.



### **Revisit the Text: Ideas for Discussion**

Share and discuss the following questions to sum up your exploration of the text. You may wish to use the questions as prompts for a Turn and Talk activity before your discussion. Encourage students to support their thinking and ideas with evidence from the text.

- The text contains two accounts, each of a similar activity demonstrating the effects of acid on a calcium compound. How does each activity elaborate on the same concept? How is the structure of the activities similar? How does this help you understand the information?
- What inferences about human teeth and bones can you make based on information in the text? What words and phrases help you make your inferences?
- After reading the entire card, what predictions can you make about the outcome of the second activity? What clues in the text help you make these predictions?

### **Write About Reading**

Have students choose either one of the following options for writing, or do both.

- Write a paragraph that explains how the effect of acids on eggshells demonstrates the possible effect of acids on bones. Cite facts and details from the text as support. (Informative/Explanatory)
- Which is more impressive: the "rubber egg," or the bendable bones? Write an opinion statement, and use details from the text to support your answer. (Opinion)

## **Connect to the Internet**

To further students' understanding of the effects of vinegar on eggshell and to watch a short video, go to http://faraday.physics.uiowa.edu/Movies/MPEG/4d50.70a. mpg. To learn more information about the science of the rubber egg, go to http://van.physics.illinois.edu/qa/listing.php?id=461.

### **Journal**

Level V

Text Type: Journal

**Summary:** This journal entry describes Lewis and Clark's first sight of the Columbia River.

Themes/Ideas: learn to read a historical journal entry; understand the importance of Lewis and Clark's expedition

**Informational Text Features:** map, illustration

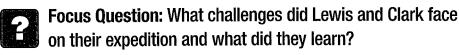
#### **Academic Vocabulary:**

- stout: strong or forceful
- toilsome: needing much effort
- allaying: making calm or reducing
- exultingly: very joyfully

#### **Domain-Specific Vocabulary:**

- principal: most important
- fork: the place where something, such as a river or road, divides into branches
- steep: almost straight up and down
- shoaly: full of sandbars or shallow areas

## The Journal of Meriwether Lewis



#### **First Reading**

Read the title and information in the text box at the top of the page. Note the name of the writer of the journal and the date of the entry, which is midway between 1804 when they left and 1806 when their journey ended. For the first reading, have students read the text and note any questions they have. Then discuss the main points that Lewis shared in his journal.

## **Guided Close Reading**

**Key Ideas and Details** According to the map and the text, where is Meriwether Lewis as he writes this journal entry? What do he and his crew think about this locale? ①-③

**Text Feature** How do the map and text help you understand the extent of Lewis and Clark's journey? ① ②

**Author's Purpose** What things does Lewis note very carefully? How does this give a clue about his purpose for keeping a journal of their expedition? What words and phrases provide clues to his purpose? **2** 

Connect Ideas What has the crew spent "so many toilsome days and restless nights" looking for? What do they do when they find it? What do they find on the opposite side of the mountain? How are the two discoveries related?

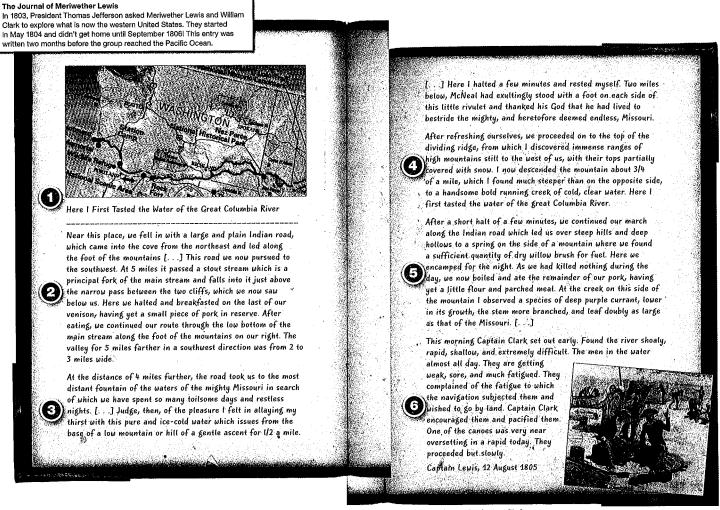
Think Aloud The crew has been looking for the source of the Missouri River. When they find it, the crew drinks the fresh water, and McNeal stands with a foot on each side of the small "rivulet." On the other side of the mountain, the crew finds the source of the Columbia River. Both discoveries are the beginnings of large rivers.

Make Inferences Lewis writes about having a small piece of pork in reserve and later about not killing anything during the day. What danger do you think the men faced about their food supply? 2 6

Words and Phrases in Context Reread the sentence that begins "At the creek on this side." Based on the context, what is a "deep purple currant"? What is the purpose of including this information in the journal?

Think Aloud Lewis describes the "deep purple currant" as a species, so I know it is a plant or an animal. He describes the currant's stem and leaf, which suggests it is a kind of plant. Lewis may have included this information because finding new plants is an important part of exploring new lands.

Compare and Contrast How did Captain Clark help the men? What can you tell about Captain Clark's personality based on this journal entry? Why might Lewis and Clark make a good team?



#### NOTE: [. . .] shows that text has been omitted.

#### **Revisit the Text: Ideas for Discussion**

Share and discuss the following questions to sum up your exploration of the text. You may wish to use the questions as prompts for a Turn and Talk activity before your discussion. Encourage students to support their thinking and ideas with evidence from the text.

- Lewis includes in his journal many details about distances. Why does he do this? What other details does he include that are not typical of a personal diary?
- What details about the Missouri River and Columbia River can a reader learn from this journal? What inferences about rivers in general can you make based on this information?
- Why would President Jefferson have read this journal?
   Why is this journal such an important historical document?

### **Write About Reading**

Have students choose either one of the following options for writing, or do both.

- What new information does the crew learn on the days described in this diary? For each discovery, explain why it might be important to know. (Informative/Explanatory)
- Is the information gathered by Lewis, as noted in his diary, important enough to justify a two-year trip? Why or why not? Support your answer with details from the diary entry. (Oninion)

#### Connect to the Internet

To learn more information about the Lewis and Clark expedition, have students visit www.pbs.org/lewisandclark/. To read more about the Lewis and Clark National Historic Trail, have students explore www.nps.gov/lecl/index.htm.

### Letter

Level V

Text Type: Letter

Summary: Rachel Carson, a famous scientist, wrote a letter to a friend after contemplating the morning they spent observing nature together.

Themes/Ideas: describe the setting of the scene described by Carson; explain the connection between ideas in the letter

Informational Text Features: text box, date, salutation, signature, photos

#### **Academic Vocabulary:**

- environmental: having to do with nature, related to the preservation of natural habitats
- annual: yearly
- postscript: a written remark coming after a completed event or piece of writing

#### **Domain-Specific Vocabulary:**

- pesticides: poisons used to kill insects harmful to farmed plants
- chemicals: substances or materials with a known makeup or composition
- migration: regular, yearly movement of animals from one place to another

## **A Letter From Rachel Carson**



**Focus Question:** How does Rachel Carson's letter capture her attitude toward nature?

### **First Reading**

To introduce Rachel Carson, read the information in the text box. Briefly discuss the meaning of "the environmental movement" and be sure students understand the role of scientists such as Carson in that movement. Before students read, remind them that this is a letter from one friend to another. Have students read the text independently. Then discuss the ideas that the author shared.

## **Guided Close Reading**

**Author's Craft** How does Carson establish the topic of her letter? How does she use sensory details to develop the setting?

**Think Aloud** The letter begins by saying it is a postscript, something written after something else, about something related to her morning with her friend at Newagen. Carson makes the scene at Newagen come alive by describing the color of the sky and the sounds of the water and the wind. She describes the graceful motion of the seagulls.

Words and Phrases in Context Carson describes the monarchs as "that unhurried westward drift of one small winged form after another, each drawn by some invisible force." What do you think is the meaning of "invisible force"?

**Think Aloud** I think the invisible force may be the need for monarchs to fly south for warmth because the cold winter weather is coming. Or it may be referring to the force of nature that makes animals behave in ways they always have.

**Key Ideas and Details** What conclusion does Carson draw about why she and her friend didn't feel sad thinking about the journey of the monarchs being "the closing journey of their lives," their last journey. How does she explain her feelings? **2**)

Compare and Contrast How does Carson connect the idea of the end of life for monarchs with the end of life for humans? What is similar about the two life cycles? What is very different about them? What does Carson's connection of the two show about her understanding of all life?

Author's Purpose How does Carson refer to the butterflies in the last paragraph? How does the paragraph connect to Carson's purpose for writing?

Photos and Text How is this particular butterfly photo relevant to the text? 2 6

#### A Letter From Rachel Carson

Rachel Carson was an American scientist. She is best known for her 1962 book *Silent Spring*, which made people aware of the harmful effects of pesticides and other chemicals. Her book also helped inspire the environmental movement. In this letter to a friend, Carson shows her love of nature as she recalls watching the annual migration of monarch butterflies.

September 10, 1963

Dear One.

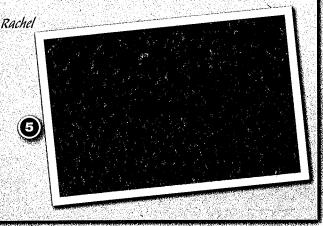
of their lives.

This is a postscript to our morning at Newagen, something I think I can write better than say. For me it was one of the loveliest of the summer's hours, and all the details will remain in my memory: that blue September sky, the sounds of the wind in the spruces and surf on the rocks, the gulls busy with their foraging, alighting with deliberate grace, the distant views of Griffiths Head and Todd Point, today so clearly etched, though once half seen in swirling fog. But most of all I shall remember the monarchs, that unhurried westward drift of one small winged form after another, each drawn by some invisible force. We talked a little about their migration, their life history. Did they return? We thought not; for most, at least, this was the closing journey But it occurred to me this afternoon, remembering, that it had been a happy spectacle, that we had felt no sadness when we spoke of the fact that there would be no return.

And rightly—for when any living thing has come to the end of its life cycle we accept that end as natural.

For the Monarch, that cycle is measured in a known span of months. For ourselves, the measure is something else, the span of which we cannot know. But the thought is the same: when that intangible cycle has run its course it is a natural and not unhappy thing that a life comes to an end.

That is what those brightly fluttering bits of life taught me this morning. I found a deep happiness in it—so I hope, may you. Thank you for this morning.



### **Revisit the Text: Ideas for Discussion**

Share and discuss the following questions to sum up your exploration of the text. You may wish to use the questions as prompts for a Turn and Talk activity before your discussion. Encourage students to support their thinking and ideas with evidence from the text.

- Why did observing the monarchs and doing some deep thinking about them help Rachel form her own understandings about life?
- What did Rachel Carson and her friend observe at Newagen? How do details in the letter support the topic?
- Reread Carson's writing about her time at Newagen.
   Which details make the scene come to life?

## **Write About Reading**

Have students choose either one of the following options for writing, or do both.

- What is Rachel Carson's attitude toward nature? Write an informational paragraph supporting your answer.
   Use evidence from the letter. (Informative/Explanatory)
- Most people would say that Rachel Carson is a very good writer. Do you agree or disagree? Write your opinion using examples from the letter. (Opinion)

#### Connect to the Internet

To learn more about the books written by Rachel Carson, go to www.rachelcarson.org/BooksBy.aspx. For more information about the Letters of Note website, go to www.lettersofnote.com/2009/09/dear-all.html.

## Magazine Article Level V

Text Type: Magazine Article

Summary: Australia's unique ecosystems are home to many interesting animals, including the platypus, the thorny devil, and the koala bear.

Themes/Ideas: identify unusual traits of the platypus, thorny devil, and koala; recognize that the health of animals such as these is dependent on the health of their environment

Informational Text Features: photos, captions, map, map legend, headings

#### Academic Vocabulary:

- isolation: the state of being alone or separated from others
- bizarre: very unusual, extraordinary
- inflates: fills with air
- · threatened: at risk of becoming endangered

#### **Domain-Specific Vocabulary:**

- · evolved: developed slowly over
- · mammal: category of warmblooded animals
- predators: animals that hunt and eat other animals
- marsupials: mammals that usually have one pouch in which to nurse or carry their young

## **Australia's Amazing Animals**



Focus Question: What makes Australia's platypus, thorny devil, and koala such unique animals?

## **First Reading**

Preview the magazine article, noting the title, deck, photos, map, and headings. Point out the map legend that explains the markings on the continent of Australia. You might want to locate Australia on a world map. Have students read through the text independently. Then, together, discuss the main ideas that are presented in this magazine article.

## **Guided Close Reading**

Vocabulary Look at the deck printed in bold type. What does the phrase "evolved in isolation" mean? What main idea is the author supporting with this phrase? How does knowing what this phrase means help you understand the main idea of the first paragraph? 1

Key Ideas and Details What idea (or ideas) in the text does the map support? What words and phrases in the text relate most closely to the map?

Author's Purpose Under the heading "What Is It?" what tone does the author use to describe what makes the platypus unique? How does this approach help get across the author's message? 6

Think Aloud The author uses a playful tone, giving clues to challenge the reader to guess what the animal is. Also, the author uses a chatty tone to describe the platypus's most unique feature by saying, "And yes, even though it is a mammal, the female platypus actually lays eggs." The author wants to inform and to entertain the reader.

Compare and Contrast What methods does the thorny devil use to defend itself from predators? In what way is the thorny devil like the platypus? How are they unlike each other? 6

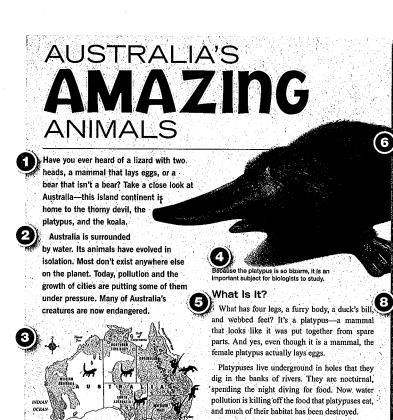
Words and Phrases in Context What is a marsupial? How does the author help you determine the meaning of this word? What word used to describe koalas provides a contrast to marsupial? 3 0

Connect Ideas What is the relationship between "sav[ing] the forest" and saving the koala? 🕲

Think Aloud Koalas are "tree-huggers" who eat mostly tree leaves and are threatened by forest destruction. Saving the forest will save the koalas.

Photos and Text What information can you get from the pictures? What main ideas or details in the text do the images support? 4 7 9

Text Structure What is the overall structure of the text? Why is this an appropriate structure for a magazine article? 1 - 12



But there is good news, too. The water has been

cleaned up in some areas, and this has drawn

platypuses to a surprising place. A few have

been found in the city of Melbourne-Australia's

second largest city. This is a good sign for the

Call Me Ugly

Australia has about 600 different kinds of snakes and lizards. However, one of them has evolved with a look so frightening that it is named the thorny devil.

To scare off larger lizards, the thorny devil inflates itself with air. Although it is only four to six inches long, when the thorny devil puffs up, it makes a large display of spiky skin. The fact is, a thorny devil moves slowly, and is actually quite a coward.

When it's really terrified, the lizard tucks its head between its front legs. Then, a spiny knob on the back of its neck comes to the rescue and stands up in place of the lizard's real head! This feat certainly makes thorny devils hard to swallow for most predators.



#### We're Not Bears

With faces like teddy bears, koalas are often mistakenly called bears, but they're not even related. These tree-huggers are actually marsupials, a mammal that usually has a pouch in which to nurse or carry its young.

The koala spends un fo 20 hours of each day sleeping!

Mama koalas have pouch-like folds to protect nursing babies. That's because when marsupial babies are born, they are not fully developed. Baby koalas are born blind and hairless and are very tiny. At birth, a baby koala measures less than an inch (less than 2.5 cm).

Adult koalas feed mostly on the leaves of eucalyptus trees. But since European settlers arrived in Australia in the 1780s, 80 percent of the eucalyptus forests have been destroyed. Today, the koala is being threatened.

The platypus, thorny devil, and koala are three examples of unusual animal life that have evolved in Australia. If people pay attention to the dangers of pollution and work to save the forests, these amazing animals should continue to survive on the continent.

WORLD WILDLIFE 37

### **Revisit the Text: Ideas for Discussion**

Koala

36 WORLD WILDLIFE

Share and discuss the following questions to sum up your exploration of the text. You may wish to use the questions as prompts for a Turn and Talk activity before your discussion. Encourage students to support their thinking and ideas with evidence from the text.

- In what ways is the environment of Australia unique? How does the environment of Australia affect its animals? What impact might the growth of cities and pollution have on these unique animals?
- What text structure does the author use? Give examples and explain how this kind of text structure helps the reader understand the information. Discuss which text features were helpful.
- What did you learn about Australia that you did not know before? How are the three animals in the text similar to animals you were familiar with? How are they different?

## **Write About Reading**

Have students choose either one of the following options for writing, or do both.

- Write an explanation of the function that Australia's natural habitats play in the lives of the platypus, the thorny devil, and the koala. (Informative/Explanatory)
- Choose one animal. Which adaptations, or evolved traits, mentioned in the text are the most important to the animal's survival? Support your opinion with facts and details from the text. (Opinion)

### **Connect to the Internet**

To learn more about platypuses and their habitats, go to http://australianmuseum.net.au/Platypus.

To learn more about Australia's unusual animals, go to http://australian-animals.net.

## Newspaper Article Level V

**Text Type:** Newspaper Article (Historical)

Summary: This news article describes the aftermath of an earthquake that devastated San Francisco, California, in 1906.

Themes/Ideas: understand the amount of damage caused by the 1906 San Francisco earthquake; explore how different groups responded to the disaster

Informational Text Features: headline, headings, photos, captions, deck

#### Academic Vocabulary:

- destitute: lacking necessities
- mangled: severely injured, often disfigured
- scores: large numbers
- provisions: arrangements

#### **Domain-Specific Vocabulary:**

- cornice: decorative strip at the top of a building
- martial law: temporary military control of an area
- · cavalry: soldiers on horseback
- · infantry: soldiers on foot

## San Francisco Earthquake

From The New York Times



**Focus Question:** How did the 1906 earthquake affect San Francisco and its residents?

## **First Reading**

Together look at the masthead, headline, and the deck, noting that this news article about the 1906 San Francisco earthquake was published on the day after the earthquake. Point out the text features. For the first reading, have students read through the article on their own. Then discuss the main ideas of the article.

## **Guided Close Reading**

**Key Ideas and Details** What details does the writer include in the deck and first two paragraphs? What do these details let you know about the earthquake? ①-③

**Words and Phrases in Context** *In the third paragraph, does the word* terrific have a positive or negative connotation? What does it tell you about how San Franciscans felt that morning?

Think Aloud Terrific has a negative connotation. It tells the reader how extreme and intense the earthquake was. In context, it shows that the earthquake terrified the San Franciscans that morning.

Compare and Contrast The writer discusses the fires that consumed the city after the earthquake. Why were they able to damage so much of the city? How did responding to the fires add to the damage? How did the damage from fires compare to the damage from the quake itself? 

(5) (6) (8)

Think Aloud The fires damaged much of the city because of several problems. The water supply was cut off during the earthquake, so firefighters had no water to put out the fires. Responding to the fires only created more damage because firefighters could only dynamite buildings that were threatened by the fire. Also, buildings that were supposed to be fireproof did not withstand the fire.

**Words and Phrases** The writer says there was an "almost immediate collapse of flimsy structures." What does this word flimsy suggest about how the buildings of that time were built? •

**Make Inferences** The writer lets readers know that those who remained indoors generally escaped with their lives. Why were the people who went outside more likely to be injured, judging by the strength of the earthquake?

Author's Craft How do descriptions in the first two paragraphs of the section "Thousands Watch the Flame" add to your understanding of what happened? What ideas about the earthquake does the section further develop? 3

**Key Ideas and Details** Which groups responded to the disaster? Why was their involvement an important part of responding to this major disaster?

### The New York Times

VOL. LX.....NO. 11,091

NEW YORK, THURSDAY, APRIL 19, 1906

PRICE ONE CENT

10

## OVER 500 DEAD, \$200,000,000 LOST IN SAN FRANCISCO EARTHQUAKE

Nearly Half the City Is in Ruins and 50,000 Are Homeless.

San Francisco, April 18—Earthquake an fire today have put nearly half of San Francisco in ruins. About 500 persons have been killed, a thousand injured, and the property loss will exceed \$200,000,000.

Fifty thousand people are homeless and destitute, and all day long streams of people have been fleeing from the stricken districts to places of safety.

It was 5:13 this morning when a terrife acthquake shock shook the whole city at surrounding country. One shock apparently lasted two minutes, and there was almost immediate collapse of filmsy structures all over the city.

The water supply was cut off, and when fires started in various sections there was nothing to do but let the buildings burn. Telegraph and telephone communication was cut off for a time. Electric power was stopped and street cars did not run, railroads and ferry-boats also ceased operations. The various fires raged all day and the fire department has been powerless to do anything except dynamite buildings threatened. All day lone exolosions have shaken the city and

#### First Warning at 5:13 A.M.

added to the terror of inhabitants.

Most of the people of San Francisco were asleep at 5:13 o'clock this morning when the terrible earthquake came without warning. The people became panic-stricken, and rushed into the streets, most of them in their night attire. They were met by showers of falling bricks, cornices, and walls of buildings.

Many were crushed to death, while others were badly mangled. Those who remained indoors generally escaped with their lives, though scores were hit by detached plaster, pictures, and articles thrown to the floor by the shock. It is believed that, more or less, loss was sustained by nearly every family in the city.

#### Thousands Watch the Flame

Banks and commercial houses, supposed to be fireproof, though not of modern build, burned



Fires burned out of control, with no water available to extinguish them.

#### THE NEW YORK TIMES: NEW YORK, N.Y., THURSDAY, APRIL 19, 1906

quickly, and the roar of the flames could be heard even on the hills, which were out of the danger zone. Here many thousands of people congregated and viewed the awful scene.

The dense smoke that arose from the entibusiness district spread out like an immensefunnel and could have been seen miles out at ser Occasionally, as some drug house or place store with chemicals was reached, most fantastic effects were produced by the centered flames and smoke which rolled out against the darker background.

Mayor Schmitz sent out word to the bakeries and milk stations throughout the city that the food supplies must be harbored for the homeless. Provisions were made to place tents in every park in the city, and those who have lost all will be given food and shelter.

The rescuers jumped in to the wrecks and pulled out the dead, the dying, and the injured.

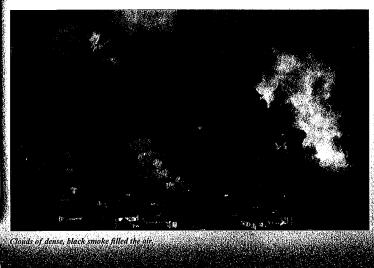
Practically every physician in the city immediately volunteered his assistance, and soon there was a well-equipped medical corps organized which began ministering to the injured.

The firemen arrived at the City Hall, but were helpless. They hitched their hose to the fire plugs, but there was no water supply.

A thousand men from the Presidio, sent by Gen. Funston, arrived downtown at 9 o'clock to patrol the streets. The Thirteenth Infantry, 1,000 strong, arrived from Angel Island a little later and went on patrol duty at once.

The soldiers were ordered to shoot down wandals caught robbing the dead and to guard with their lives the millions of dollars' worth of property placed in the streets to escape the flames.

The city is under martial law, and all the downtown streets are patrolled by cavalry and infantry.



### **Revisit the Text: Ideas for Discussion**

Share and discuss the following questions to sum up your exploration of the text. You may wish to use the questions as prompts for a Turn and Talk activity before your discussion. Encourage students to support their thinking and ideas with evidence from the text.

- How does the writer's word choice help the reader understand the impact of the earthquake? Give examples from the text.
- The author describes how city officials and residents organized to help San Franciscans. What does this contribute to other ideas in the article about how people responded to the disaster?
- Think about the aftermath of the 1906 San Francisco earthquake. How did this event affect the city's preparations for future earthquakes?

### **Write About Reading**

Have students choose either one of the following options for writing, or do both.

- Based on the information in the article, how did the 1906 earthquake affect San Francisco and its residents? Write an informative paragraph including key details from the article. (Informative/Explanatory)
- After the earthquake, soldiers were "ordered to shoot down vandals caught robbing the dead" and to "guard with their lives" the property put in the streets. Yet thousands of people were injured, homeless, and in need of help. Do you think it was right for the soldiers to focus so much on stopping theft after the earthquake? Support your opinion with details from the article. (Opinion)

#### **Connect to the Internet**

To learn more information about the 1906 San Francisco earthquake, go to www.exploratorium.edu/faultline/great/1906/ and http://earthquake.usgs.gov/regional/nca/1906/18april/index.php.

## **Question and Answer Book**

Level V

**Text Type:** Question and Answer Book

Summary: What's clear, sticky, and works like a time machine? Read this Q&A to find out how fossilized amber tells scientists about the ancient past.

Themes/Ideas: define amber and understand its role in preserving plants and animals; explain the importance of amber in scientific understanding of history

**Informational Text Features:** questions, answers, photos, caption, text box

#### **Academic Vocabulary:**

- · mission: a specific task or job
- glimpse: a quick look, a glance
- transparent: has the property of clarity, something you can see through
- abundant: numerous, plentiful

#### **Domain-Specific Vocabulary:**

- resin: sticky brownish substance that oozes from trees
- fossil: preserved artifact from a past geologic era
- blossoms: flowers of seed plants
- · primeval: ancient

## Trapped in Time



Focus Question: How does amber help give scientists a glimpse of the past?

### **First Reading**

Read the title and preview the text, noting the question and answer format. Discuss the large picture that shows an insect trapped in amber. Explain that students will learn more about amber when they read the questions and answers. Have students read through the text on their own independently. Then discuss the main ideas the author shares about the usefulness of amber to scientists.

### **Guided Close Reading**

Words and Phrases in Context What is the meaning of the phrase "time capsule" in the text? Why is this an accurate description of fossilized amber? 3 4 9

Key Ideas and Details Where did the scientists from the American Museum of Natural History go, and what did they find?

Connect Ideas What did scientists learn about life long ago from the fossils in amber that they found? 5 - 7

Think Aloud They found the oldest bee, ant, and mushrooms in the amber. The amber helped scientists learn about insects and plants that lived as many as 94 million years ago.

Vocabulary/Photos and Text Amber is transparent. How does being transparent help make amber such a valuable tool for scientists? (3)

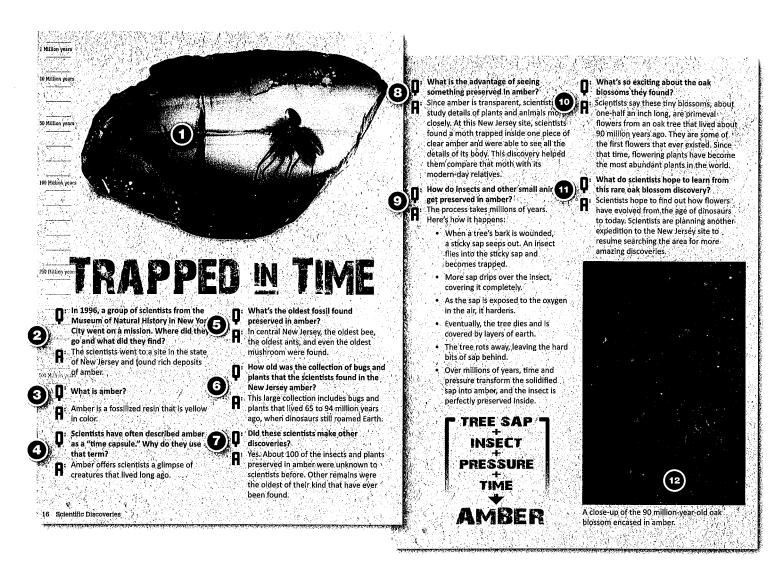
Text Feature What text feature is used to organize the steps in the process of preserving insects in amber? How can this text feature help you quickly find a specific detail you are looking for? What does the flowchart show?

Think Aloud Bullet points show the steps in the process of preserving creatures in fossilized amber. The bullet points help me scan the text very quickly for a particular detail. The flowchart shows the steps more concisely.

Summarize How would you summarize the main points in this text? What information would you include in your summary? What information would you exclude? 1) 3) 5) 6) 9)

Photos and Text How do the photos contribute information that adds to your understanding of the importance of amber when studying the history of living things? 10 12

Make Inferences What is significant about the discovery of the oak blossom? What do scientists hope to learn from examining it? What kinds of information do you think scientists might expect to gather from further discoveries of fossils in amber? 10 10



### **Revisit the Text: Ideas for Discussion**

Share and discuss the following questions to sum up your exploration of the text. You may wish to use the questions as prompts for a Turn and Talk activity before your discussion. Encourage students to support their thinking and ideas with evidence from the text.

- What is the author's purpose for writing this text?
   Does the author primarily want to inform, persuade, or entertain readers? What details in the text help you determine the author's purpose?
- What characteristics of amber make it ideal for preserving tiny plants and insects? What have scientists been able to learn from fossils preserved in amber?
- This text is presented in a question-and-answer format. What other questions would you like to ask about amber?

### Write About Reading

Have students choose either one of the following options for writing, or do both.

- Make a word web with amber at the center. Use the web to show the most important facts and details from the text. (Informative/Explanatory)
- What is the most important thing amber can teach us about life on Earth in the distant past? Write a paragraph supporting your opinion with evidence from the text. (Opirion)

### **Connect to the Internet**

To learn more information about amber, go to www.pbs. org/wgbh/nova/nature/stories-in-the-amber.html and www.pbs.org/wgbh/nova/nature/amber-time-machine.html.

## **Speech**

Level V

Text Type: Speech

Summary: These pages contain an excerpt from a speech by U.S. President Theodore Roosevelt that encouraged the conservation of the nation's natural resources.

Themes/Ideas: understand why conservation is important; recognize the measures Roosevelt suggests to encourage conservation

**Informational Text Features:** presidential seal, photo

#### **Academic Vocabulary:**

- *duty:* responsibility or task
- utilization: the use of something for a specific reason
- foresight: the ability to predict what will happen in the future
- exhaustion: the act or process of using up all of something

#### **Domain-Specific Vocabulary:**

- conservation: the act or process of using resources carefully to avoid wasting them
- alloys: substances made by mixing two metals
- lumber: wooden logs that have been cut and prepared for use in construction
- mines: underground areas where people gather natural minerals

## **Conservation as a National Duty**



**Focus Question:** How does President Theodore Roosevelt explain why it is important to conserve natural resources?

### **First Reading**

Read the title and information in the text box at the top of the page. Review the meanings of *conservation* and *duty*. Note that Theodore Roosevelt served as the 26th President of the United States from 1901 to 1909. Have students read though the text. Then discuss the main ideas about conservation that Roosevelt shared.

### **Guided Close Reading**

**Text Feature** Note that the presidential seal appears above the title on this printed version of Roosevelt's speech. What does it mean, and why do you think it is included? ①

Author's Purpose What is the purpose of President Roosevelt's speech? What words or phrases communicate that purpose to his audience?

Think Aloud The purpose of President Roosevelt's speech is to explain the importance of conservation. He states this purpose in the first paragraph when he says "so that we may join together to consider the question of the conservation and use of the great fundamental resources of wealth of this Nation."

Compare and Contrast What kinds of natural resources are found in the United States? What were they used for in Roosevelt's time? How does he present the two key factors of the nation's industrial success and its use of natural resources? How might the nation suffer if its resources are used up? 3-6

**Vocabulary** Roosevelt repeats the word foresight several times in this speech. What does this word mean? Why do you think he repeats it so much? What is the effect of this technique? 4 5

**Think Aloud** Foresight means an ability to look into the future to guess what will happen. Roosevelt repeats the word so many times to emphasize that people need to be prepared for what might happen. This repetition is effective in emphasizing the idea that it is important to save resources for future generations.

**Key Ideas and Details** Which two classes of natural resources does Roosevelt identify? How does this classification help you understand the main idea of Roosevelt's speech? (5)

Words and Phrases in Context Roosevelt says "exhaustion is sure to come" in time. What does the word exhaustion mean in this context? Why is this an important point to make?

**Connect Ideas** Reread the conclusion to Roosevelt's speech. Is it an effective conclusion? How does it relate to the rest of the information given in the speech? **①** 

Theodore Roosevelt, the 26th president of the United States, believed in conservation. Here is an excerpt of Theodore Roosevelt's conservation speech, urging the United States to save our natural resources.



CONSERVATION AS A NATIONAL DUTY

I welcome you to this Conference at the White House. You have come hither at my request, so that we may join together to consider the question of the conservation and use of the great fundamental sources of wealth of this Nation.

Since the days when the Constitution was adopted, steam and electricity have revolutionized the industrial world. Nowhere has the revolution been so great as in our own country. The discovery and utilization of mineral fuels and alloys have given us the lead over all other nations in the production of steel. The discovery and utilization of coal and iron have given us our railways, and have led to such industrial development as has never before been seen. The vast wealth of lumber in our forests, the riches of our soils and mines, the discovery of gold and mineral oils, combined with the efficiency of our transportation, have made the conditions of our life unparalleled in comfort and convenience.

[...]

We have become great in a material sense because of the lavish use of our resources, and we have just preason to be proud of our growth. But the time has come to inquire seriously what will happen when our forests are gone, when the coal, the iron, the oil, and the gas are exhausted, when the soils shall have been still further impoverished and washed into the streams, polluting the rivers, denuding the fields, and obstructing navigation. These questions do not



relate only to the next century or to the next generation. One distinguishing characteristic of really divilized men is foresight; we have to, as a nation, exercise foresight for this nation in the future; and if we do not exercise that foresight, dark will be the future! We should exercise foresight now, as the ordinarily prudent man exercises foresight in conserving and wisely using the property which contains the assurance of well-being for himself and his children. We want to see a man own his farm rather than rent it, because we want to see it an object to him to transfer it in better order to his children. We want to see him exercise forethought for the next generation. We need to exercise it in some fashion ourselves as a nation for the next generation.

The natural resources I have enumerated can be divided into two sharply distinguished classes accordingly as they are or are not capable of renewal. Mines if used must necessarily be exhausted. The minerals do not and can not renew themselves. Therefore in dealing with the coal, the oil, the gas, the iron, the metals generally, all that we can do is to try to see that they are wisely used. The exhaustion is certain to come in time. We can trust that it will be deferred long enough to enable the extraordinarily inventive genius of our people to devise means and methods for more or less adequately replacing what is lost; but the exhaustion is sure to come.

 $1, \dots, 1$ 

Finally, let us remember that the conservation of our natural resources, though the gravest problem of today, is yet but part of another and greater problem to which this Nation is not yet awake, but to which it will awake in time, and with which it must hereafter grapple if it is to live—the problem of national efficiency, the patrictic duty of insuring the safety and continuance of the Nation. [Applause.] When the People of the United States consciously undertake to raise themselves as citizens, and the Nation and the States in their several spheres, to the highest pitch of excellence in private, State, and national life, and to do this because it is the first of all the duties of true patriotism, then and not till then the future of this Nation, in quality and in time, will be assured.

NOTE: [...] indicates that parts of the speech have been omitted.

### **Revisit the Text: Ideas for Discussion**

Share and discuss the following questions to sum up your exploration of the text. You may wish to use the questions as prompts for a Turn and Talk activity before your discussion. Encourage students to support their thinking and ideas with evidence from the text.

- What tone, or attitude, does President Roosevelt use in his speech? Which words and phrases help you identify his tone?
- What evidence does Roosevelt give to support his claim that natural resources have benefited the nation?
- What did you learn about conservation that you didn't know before? How does Roosevelt's speech compare with other campaigns for conservation that you may have seen or read?

### **Write About Reading**

Have students choose either one of the following options for writing, or do both.

- Do you agree with President Roosevelt that conservation is a patriotic duty? Why or why not? Use details from the speech to write a letter to the editor of a newspaper in support of your position. (Opinion)
- Use details from the speech to create a list of problems that may occur if citizens do not follow Roosevelt's advice about conservation. (Informative/Explanatory)

#### **Connect to the Internet**

To read more about President Roosevelt's efforts to promote conservation, have students visit these websites: www.nps.gov/thro/historyculture/theodore-roosevelt-and-conservation.htm and www.nps.gov/history/logcabin/html/tr5.html.

## **Level V Lessons at-a-Glance**

LEVEL <b>V</b>						
Text Type	Title	Content Area	Text Complexity	Themes/Ideas	Technology Links	
Almanac Excerpt	Inventors and Inventions	Science & Technology History	Basic	learn who invented several objects people use every day; understand how an idea can become an invention and how one inventor may build on others' discoveries	<ul> <li>www.nps.gov/edis/forkids/a-brief -biography-of-thomas-edison.htm</li> <li>http://memory.loc.gov/ammem/ edhtml/edbio.html</li> </ul>	
Essay	Viking Voyages	History/ Exploration Geography	Basic	recognize why the Vikings voyaged to North America; understand why the Vikings were unable to keep a settlement in North America	<ul> <li>www.mnh.si.edu/vikings/index.html</li> <li>www.pc.gc.ca/eng/lhn-nhs/nl/ meadows/natcul.aspx</li> </ul>	
Guidebook Excerpt	Deepest Lake and Highest Waterfall	Earth Science Geography	Moderate	learn the history of and basic facts about Crater Lake and Yosemite Falls; understand information for visiting Crater Lake and Yosemite Falls	● www.nps.gov/findapark/index.htm	
How-to	The Acid Effect	Physical Science	Complex	understand how acid acts on eggshells; explain the relationship between scientific concepts	http://faraday.physics.ulowa.edu/ Movies/MPEG/4d50.70a.mpg     http://van.physics.illinois.edu/qa/ listing.php?id=461	
Journal Excerpt	The Journal of Meriwether Lewis	History/ Exploration Geography	Complex	learn to read a historical journal 'entry; understand the importance of Lewis and Clark's expedition	www.pbs.org/lewisandclark/     www.nps.gov/lecl/index.htm	
Letter	A Letter From Rachel Carson	History Life Science	Moderate	describe the setting of the scene described by Carson; explain the connection between ideas in the letter	www.rachelcarson.org/BooksBy. aspx  www.lettersofnote.com/2009/09/ dear-all.html	
Magazine Article	Australia's Amazing Animals	Life Science	Moderate	identify unusual traits of the platypus, thorny devil, and koala; recognize that the health of animals such as these is dependent on the health of their environment	http://australianmuseum.net.au/     Platypus     http://australian-animals.net	
Newspaper Article (Historical)	San Francisco Earthquake	History Earth Science	Complex	understand the amount of damage caused by the 1906 San Francisco earthquake; explore how different groups responded to the disaster.	www.exploratorium.edu/faultline/great/1906/ http://earthquake.usgs.gov/regional/nca/1906/18april/index.php	
Question and Answer Book Excerpt	Trapped in Time	Earth Science	Basic	define amber and understand its role in preserving plants and animals; explain the importance of amber in scientific understanding of history	www.pbs.org/wgbh/nova/nature/ stories-in-the-amber.html     www.pbs.org/wgbh/nova/nature/ amber-time-machine.html	
Speech	Conservation as a National Duty	History Earth Science	Complex	/understand why conservation is important; recognize the measures Roosevelt suggests to encourage conservation	www.nps.gov/thro/historyculture/theodore-roosevelt-and-conservation.htm www.nps.gov/history/logcabin/html/tr5.html	