

Lightning

Day 1 How Lightning Occurs

Most of the weather we experience occurs in the troposphere, the part of the atmosphere closest to the Earth's surface. The diagram below shows how lightning forms. Read the three words and their definitions, then look at the diagram and read the caption.

Spelling Word List

atmosphere

New Words

discharge the release of electric energy from a conducting body

luminous emitting light

phenomenon an observable event

thundercloud a large, dark cloud charged with electricity which produces thunder and lightning

transient a momentary event

Additional Words

WORD ROOT sphere

atmosphere

stratosphere

thermosphere

REAL WORLD WORDS

atmosphere

nitrogen

ozone

troposphere



During a storm, a cloud's particles can rub and make the cloud electrically charged. If this happens, the cloud becomes a **thundercloud**.

Lightning is **luminous**; it emits very bright light. Also, a lightning strike is a **transient phenomenon** because it only lasts for a moment.

Lightning that hits the Earth is an electrical **discharge** of about 100 million volts of electricity.

Answer the following questions on a separate sheet of paper. Write complete sentences.

1. Which is more luminous, a full moon or a new moon? Why?
2. How is a thundercloud different from a regular cloud?
3. Which is a transient event, a rockslide or the gradual erosion of a hillside? Why?
4. Why can lightning be described as a phenomenon?
5. What does lightning discharge?

Spelling and Phonics

Final /ant/ /at/ and /ast/

Final /ant/ sounds
(system, image)

Final /at/ sounds (tag, triangle, chain)

Final /ast/ sounds
(mountain, instant)

Day 2 Miss Completions

Complete each sentence with a New Word. Use a separate piece of paper.

1. The stars are **luminous** because _____.
2. Another thing besides lightning that can **discharge** an electric current is _____.
3. A cloud may become a **thundercloud** if _____.
4. Unlike some lightning, a **transient** event _____.
5. A volcanic eruption is a **phenomenon** because _____.

Day 3 Irregular Plurals from Latin and Greek

Many scientific and technical words are derived from Latin or Greek. Some of these nouns form plurals in ways other than adding s or es.

Example phenomenon → drop in → add s → phenomena

This chart shows how to spell the plural form of eight scientific or technical words. On a separate piece of paper, write the plural form of each word.

drop in → add s	drop in → add in	add a
1. nucleus → _____	5. appendix → _____	7. larva → _____
2. fungus → _____	6. matrix → _____	8. vertebrae → _____
3. cortex → _____		
4. stimulus → _____		

Day 4 Challenge: Word Root sphere

Sphere derives from an ancient Greek word meaning "ball." The words that name the five layers of Earth's atmosphere include the root sphere. Find a diagram of Earth's atmosphere in an encyclopedia. (You may need to look under the entry word air.) Draw a simple diagram of the layers of the atmosphere on another sheet of paper. Use the words in the box to label the diagram.

atmosphere troposphere mesosphere ionosphere stratosphere

Day 5 Review

In 1752, Benjamin Franklin used a simple experiment to show that lightning is electricity. He attached a metal key to the end of a kite string and guided the kite into a thunderstorm. As the string became electrified, a spark jumped from the key to nails on the ground. Put yourself in Franklin's shoes and write a letter to a friend expressing your excitement about your discovery. Use all of the New Words in your letter, and at least one Real World Word.



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1. Understanding the eBook Houghton Mifflin Spelling And Vocabulary Grade 8 Answers Unit 1
 - The Rise of Digital Reading Houghton Mifflin Spelling And Vocabulary Grade 8 Answers Unit 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Houghton Mifflin Spelling And Vocabulary Grade 8 Answers Unit 1
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Houghton Mifflin Spelling And Vocabulary Grade 8 Answers Unit 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Houghton Mifflin Spelling And Vocabulary Grade 8 Answers Unit 1
 - Personalized Recommendations
 - Houghton Mifflin Spelling And Vocabulary Grade 8 Answers Unit 1 User Reviews and Ratings

- Houghton Mifflin Spelling And Vocabulary Grade 8 Answers Unit 1 and Bestseller Lists
- 5. Accessing Houghton Mifflin Spelling And Vocabulary Grade 8 Answers Unit 1 Free and Paid eBooks
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 - Houghton Mifflin Spelling And Vocabulary Grade 8 Answers Unit 1 eBook Subscription Services
 - Houghton Mifflin Spelling And Vocabulary Grade 8 Answers Unit 1 Budget-Friendly Options
- 6. Navigating Houghton Mifflin Spelling And Vocabulary Grade 8 Answers Unit 1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Houghton Mifflin Spelling And Vocabulary Grade 8 Answers Unit 1 Compatibility with Devices
 - Houghton Mifflin Spelling And Vocabulary Grade 8 Answers Unit 1 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Houghton Mifflin Spelling And Vocabulary Grade 8 Answers Unit 1
 - Highlighting and Note-Taking Houghton Mifflin Spelling And Vocabulary Grade 8 Answers Unit 1
 - Interactive Elements Houghton Mifflin Spelling And Vocabulary Grade 8 Answers Unit 1
- 8. Staying Engaged with Houghton Mifflin Spelling And Vocabulary Grade 8 Answers Unit 1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Houghton Mifflin Spelling And Vocabulary Grade 8 Answers Unit 1
- 9. Balancing eBooks and Physical Books Houghton Mifflin Spelling And Vocabulary Grade 8 Answers Unit 1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Houghton Mifflin Spelling And Vocabulary Grade 8 Answers Unit 1
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Houghton Mifflin Spelling And Vocabulary Grade 8 Answers Unit 1
 - Setting Reading Goals Houghton Mifflin Spelling And Vocabulary Grade 8 Answers Unit 1
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Houghton Mifflin Spelling And Vocabulary Grade 8 Answers Unit 1
 - Fact-Checking eBook Content of Houghton Mifflin Spelling And Vocabulary Grade 8 Answers Unit 1
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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