

VISUAL SUMMARY A LIVING PLANET

The Earth Inside and Out

- The earth's interior is made up of a series of layers that float on one another.
- The exterior of the earth is the crust.
- The presence of air and water make life on earth possible.



Bodies of Water and Landforms

- Almost three-fourths of the earth is covered with water.
- The hydrologic cycle circulates water.
- Landforms on the land and under the ocean are similar.



Internal Forces Shaping the Earth

- Huge plates on the earth's crust move because of the circulation of magma.
- Earthquakes and volcanoes are the results of plate movement.



External Forces Shaping the Earth

- Weathering and erosion cause changes in the earth's surface and build soil.
- Actions of wind, water, ice, and gravity shape the earth's surface.



Reviewing Places & Terms

A. Briefly explain the importance of each of the following.

- | | |
|---------------------|-------------------|
| 1. continent | 6. tectonic plate |
| 2. magma | 7. earthquake |
| 3. hydrologic cycle | 8. volcano |
| 4. landform | 9. weathering |
| 5. relief | 10. erosion |

B. Answer the questions about vocabulary in complete sentences.

11. How are continents and tectonic plates related?
12. Where is magma found?
13. Lava is a form of which term listed above?
14. What is an example of a landform?
15. What does relief tell you about a landform?
16. What is the purpose of the hydrologic cycle?
17. What causes earthquakes?
18. How are magma and volcanoes related?
19. What are the two types of weathering?
20. What must be present for erosion to occur?

Main Ideas

The Earth Inside and Out (pp. 27–31)

1. What layers are found in the earth's interior?
2. What is the continental drift theory?

Bodies of Water and Landforms (pp. 32–36)

3. How does water reach a drainage basin?
4. What is topography?

Internal Forces Shaping the Earth (pp. 37–41)

5. What are three types of plate boundaries?
6. How are the Richter scale and a seismograph used?
7. What is the Ring of Fire?

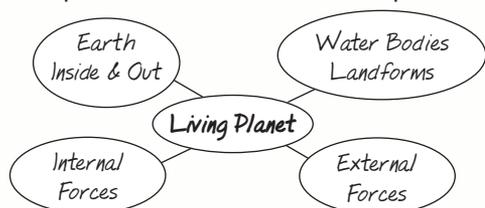
External Forces Shaping the Earth (pp. 42–45)

8. What is the difference between weathering and erosion?
9. What are three transporting agents of erosion?
10. Why are there many different types of soil?

Critical Thinking

1. Using Your Notes

Use your completed chart to answer these questions.



- Why is water a critical element on the earth?
- How do internal and external forces shape the earth?

2. Geographic Themes

- MOVEMENT** How does the movement of wind, water, or ice reshape the earth's surface?
- HUMAN-ENVIRONMENT INTERACTION** How do volcanoes and earthquakes affect human life?

3. Identifying Themes

What might be the hazards of living near the Ring of Fire? Which of the five themes apply to this situation?

4. Determining Cause and Effect

What is the relationship between tectonic plates, earthquakes, and volcanoes?

5. Making Comparisons

How is a valley created by water different from a valley created by a glacier?

Additional Test Practice,
pp. S1–S37



TEST PRACTICE
CLASSZONE.COM

Geographic Skills: Interpreting Charts

Ten Most Deadly Earthquakes in the 20th Century

Use the information in the chart to answer the following questions.

- LOCATION** Which location suffered two deadly earthquakes in the 20th century?
- MOVEMENT** How is the magnitude of a quake related to loss of life?
- PLACE** What reasons might there be for so great a loss of life in Tangshan, China?

Date	Location	Deaths	Magnitude*
1976, July 27	Tangshan, China	255,000	8.0
1920, Dec. 16	Gansu, China	200,000	8.6
1927, May 22	Nan-Shan, China	200,000	8.3
1923, Sept. 1	Yokohama, Japan	143,000	8.3
1908, Dec. 28	Messina, Italy	83,000	7.5
1932, Dec. 25	Gansu, China	70,000	7.6
1970, May 31	Northern Peru	66,000	7.8
1935, May 30	Quetta, India	50,000	7.5
1990, June 20	Western Iran	40,000	7.7
1988, Dec. 7	Armenia	25,000	7.0

*Magnitude of earthquakes measured on the Richter scale developed in 1935.
SOURCES: Global Volcanism Network, Smithsonian Institution, U.S. Geological Survey, *World Almanac*

GeoActivity

Using a base map of the world and an atlas, plot the locations of the ten most deadly earthquakes. Write a sentence describing the pattern you see in the locations.



INTERNET ACTIVITY

Use the links at classzone.com to do research about volcanic action. Focus on a variety of volcanic activities, including eruptions, geysers, hot springs, and island formation.

Creating a Multimedia Presentation Put together a presentation about the variety of volcanic activity. Include diagrams of several different types of activity and give examples of locations where the activity takes place.