

VISUAL SUMMARY LOOKING AT THE EARTH

The Five Themes of Geography

Location

- **Absolute Location** uses latitude and longitude.
- **Relative Location** uses relationships to other places.

Place This explains the characteristics of an area.

Region This looks at a larger area with similar characteristics.

Movement People, plants, animals, and ideas move through time and across space.

Human–Environment Interaction Humans interact with the environment to adjust to it or to alter it.



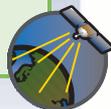
The Geographer's Tools

Globe A three-dimensional representation of the earth

Map A two-dimensional representation of the earth

Mapmaking

- Area is surveyed.
- High-tech tools, including satellites, are used to gather data and create maps.



Geography Skills Handbook

Map Elements Maps have elements such as a legend to aid in interpreting them.

Scale This determines how much detail is shown on a map.

Grid Gridlines help to determine absolute location.

Projection This shows the earth's surface in two dimensions but distorts either size, shape, direction, or area.

Types of Maps These include physical, political, and thematic, such as qualitative, cartographic, or flow-line.



Reviewing Places & Terms

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

- | | |
|-------------------|--------------------|
| 1. geography | 6. longitude |
| 2. hemisphere | 7. globe |
| 3. equator | 8. map |
| 4. prime meridian | 9. cartographer |
| 5. latitude | 10. map projection |

B. Answer the questions about vocabulary in complete sentences.

- Which of the above terms indicate imaginary parallel lines that circle the earth?
- Which term marks the beginning of longitude?
- Which of the above terms has 180° in each hemisphere?
- How may hemispheres be divided?
- What imaginary line separates the Northern Hemisphere from the Southern Hemisphere?
- Which term is also known as a meridian line?
- Would a cartographer work on a map or a globe?
- Why are map projections needed?
- Which of the above terms are associated with the geographic grid?
- Which term characterizes the study of the use of land space?

Main Ideas

The Five Themes of Geography (pp. 5–9)

- How is absolute location different from relative location?
- What are some examples of information that would be included in a place description?
- How is place different from region?
- Why do geographers study movement?

The Geographer's Tools (pp. 10–13)

- What is the purpose of a map?
- How do satellites aid in mapmaking?
- Why is GIS a valuable tool for examining the geography of a place?

Geography Skills Handbook (pp. 14–23)

- How is the use of small-scale maps different from the use of large-scale maps?
- In what ways may relief be shown on a map?
- What are three types of thematic maps?

Critical Thinking

1. Using Your Notes

Use your completed chart to answer these questions.

| |
|-----------|
| 5 Themes: |
| Tools: |

- How are relative location and place related?
- How do thematic maps help geographers understand the five themes?

2. Geographic Themes

- REGION** Write a sentence describing a region that your community is a part of. Be sure to identify the region and give reasons for your answer.
- MOVEMENT** How are linear and time distances related to the theme of movement?

3. Identifying Themes

Into which two hemispheres would an island at 50°S , 60°W be placed? Which of the five themes are reflected in your answer?

4. Drawing Conclusions

Why was it necessary for geographers to develop a grid system?

5. Seeing Patterns

Into which formal region, functional region, and perceptual region might your community be placed?

Additional Test Practice,
pp. S1–S37



TEST PRACTICE
CLASSZONE.COM

Geographic Skills: Interpreting Maps

Continents of the World

Use the map to answer the following questions.

- LOCATION** What is the absolute location of the continent of Australia?
- LOCATION** What is the relative location of South America?
- PLACE** What body of water is located at 45°N , 45°W ?



GeoActivity

With a partner, choose and record the latitude and longitude of five locations on the map at left. Then trade your list with another set of partners. Have them search for the coordinates on your list, and do the same with their list. Then check the accuracy of the findings.



INTERNET ACTIVITY

Use the links at classzone.com to do research about GIS. Take notes on the ways GIS can be used to provide geographic information for mapmaking, site selection, and simulating environmental effects.

Creating a Multimedia Presentation Using the information you gathered about GIS, create a multimedia presentation explaining the various aspects of GIS and how it helps geographers and others solve problems.