

Basic Map Skills

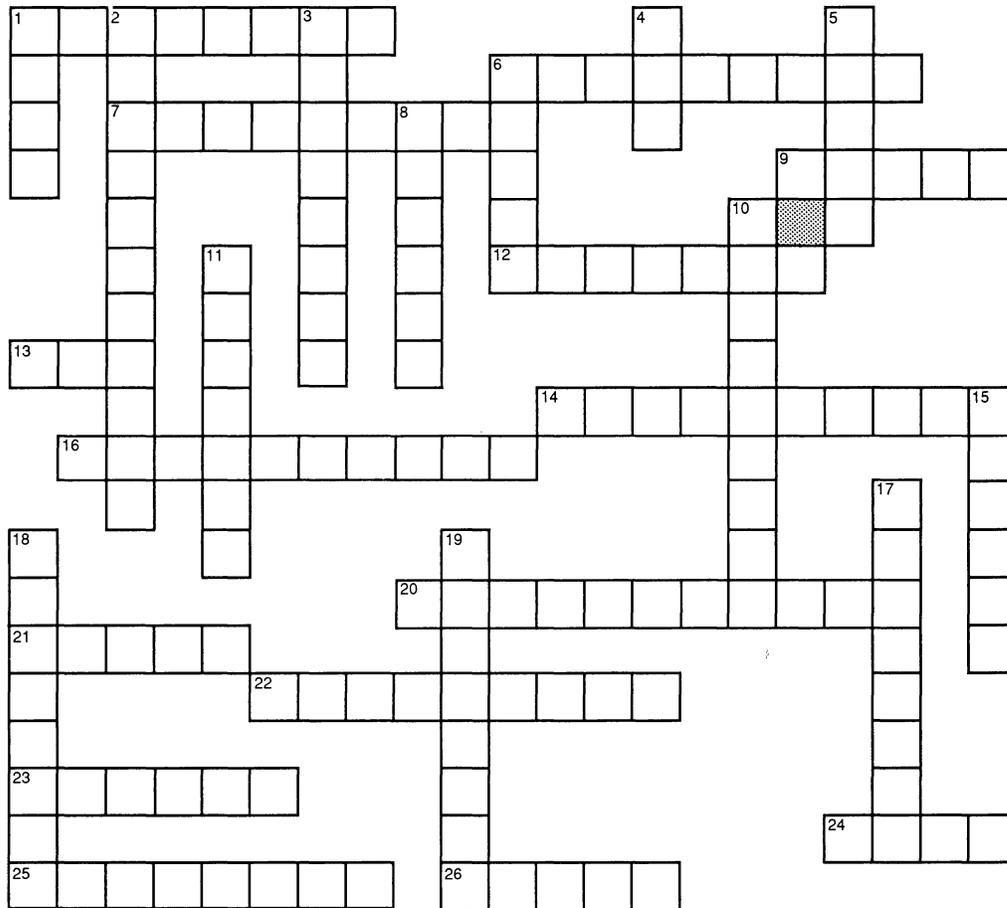
PAGE	TITLE	CONCEPTS AND SKILLS
1	All Fifty	States and Their Capitals
2	Crossword Glossary	Map Definitions
3	Compass Roses	Directions
4	The United States	The United States Map
5	Know Your United States–I	United States Geography
6	Know Your United States–II	United States Geography
7	Find the Errors	United States Geography
8	Latitude and Longitude	Using Lines of Latitude & Longitude
9	Landforms	Identifying Landforms
10	Maps for Different Needs	Recognizing and Using Different Types of Maps
11	Scales	Making Scales for Familiar Places
12	Map Symbols	Interpreting Map Symbols
13	Your Neighborhood	Mapping a Neighborhood
14	Making a Map	Designing a Map
15	Your State	Create a State Map
16	Map Placement	Understanding Hemispheres, Latitude, Longitude
17	What Time Is It?	Understanding Time Around the World
18	The Rush Is On!	Charting a Route
19	Summer Vacation	Planning a Trip
20	Traveling in Europe	Charting a Trip a Long Way from Home

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Crossword Glossary



ACROSS

1. The parallel lines that run from east to west on a map show _____.
6. place name associated with the 0° meridian
7. map that shows physical boundaries
9. flat open land
12. imaginary line that runs from east to west around the middle of Earth on a map or globe
13. a representation of Earth's surface or part of Earth's surface
14. name for the seven large landmasses
16. north, southwest, east, etc.
20. halves of Earth
21. the Mississippi is an example of one
22. The latitude line 23° 27' south of the equator is the tropic of _____.
23. a section on a map that explains the map's features
24. where the sun sets
25. The place where something can be found is called its _____.
26. The direction that is usually at the top of a map.

DOWN

1. a large, inland body of water
2. A map with contour lines that shows elevations of Earth's surface is a _____ map.
3. an imaginary line to the east of which it is one day earlier than to the west (2 words)
4. another word for *legend*
5. the line on a map which indicates the relationship between a given measurement and the area it represents on a map
6. a spherical model of Earth
8. The latitude line 23° 27' north of the equator is the tropic of _____.
10. The lines that intersect latitude lines on a map are lines of _____.
11. These are used to measure latitude and longitude. There are 360 of them.
15. a drawing or marking that represents a specific feature on a map
17. the measurement from one place to another
18. another word for a latitude line
19. name for the north/south line calculated to go through Greenwich, England

Your Neighborhood

If you were asked to draw a house, your drawing would probably look something like this: →



Your drawing of a garden might look something like this: →

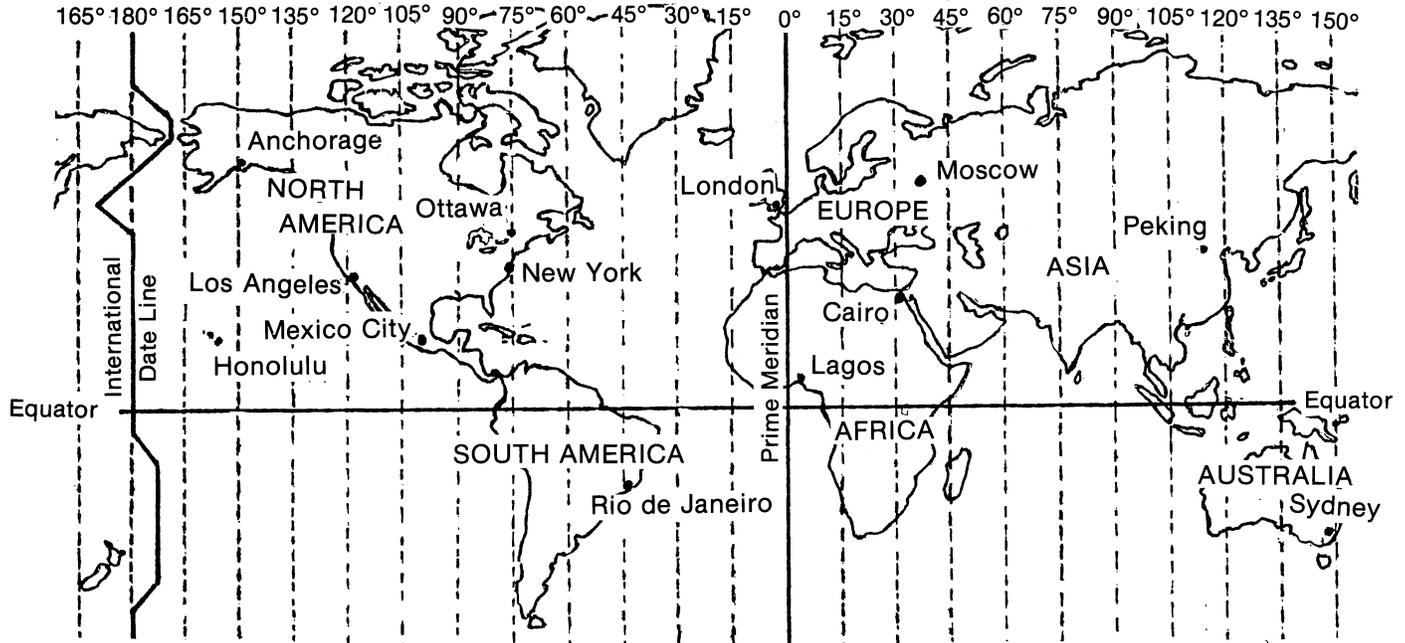
You would probably draw a side view of a house and garden because you usually view things from the ground. If you saw a house and a garden from a bird's-eye view, they might look more like this:



Imagine being in an airplane and flying over your house. When you look down, you see the top of your house, the tops of trees, streets, gardens, etc. When maps are made, mapmakers called cartographers use photographs of Earth's surface. These photographs are taken from high above Earth.

Make a map of your block or the immediate area around your home. Draw it as it would look from above. Include a legend, a compass rose, and an approximate scale on your map. Create your map in the box below.

What Time Is It?



Earth rotates as it revolves around the Sun. As Earth rotates, the Sun's rays move across Earth. A complete rotation of Earth takes 24 hours. During a rotation, Earth turns through 360° of longitude. $360^\circ \div 24 = 15^\circ$. Therefore, Earth moves through 15° of longitude in an hour. For example, when the Sun rises in Chicago at 7:00 A.M., New York has already had an hour of sunlight. Denver is still in darkness. What time is it in New York when it is 7:00 A.M. in Chicago? _____ What time is it in Denver when it is 7:00 A.M. in Chicago? _____ How many time zones are there altogether? _____

The _____ is the starting point for the world's time zones. All time zones go east or west of this line in 15° intervals. The time intervals are progressively one hour _____ to the west and one hour _____ to the east.

Write what time it is in the cities listed below when it is noon in London. Be sure to label the time as A.M. or P.M.

_____ Cairo _____ Sydney _____ Rio de Janeiro
 _____ Chicago _____ Anchorage _____ Moscow

The _____ is an imaginary line that determines where a new day first begins. It is a day earlier to the east of this line than it is to the west of it. For example, if it is Sunday in the United States, what day is it in Australia? _____

The lines that make up time zones are not exactly straight because straight lines would cause some cities to have two different time zones.

A plane leaves St. Louis at 3:30 P.M. for San Francisco. The flight is four hours long. What time is it in San Francisco when the plane lands? _____ Did the people on the plane gain or lose time? _____

A plane leaves Dallas at 4:00 P.M. for London. The flight takes 8 1/2 hours. What time is it in London when the plane arrives? _____ Do the passengers arrive in London on the same day that they left Dallas? _____ Explain. _____