

ANSWER KEY

Monday

- 1. North Pole and South Pole
- 2. indiscionice:

Twenday

- I. equator
- Northern and Southern Hemispheres

Wednesday

- 1. 0 degrees longitude
- Eastern and Western Hemispheres

Thursday

- 1, 40,000 killometers
- 2. It gets very cold.

Friday.

- 1. Northern Hemisphere
- 2. Eastern Hemisphere

Challenge

The Earth, like a globe, is a sphere. Maps are not able to accurately show the round Earth.

Globe Lines

Introducing the Globes

Explain to students that a globe is a more accurate way to show the Earth, since Earth is shaped like a sphere. Show the classroom globe to students. Talk about how the Earth rotates on an imaginary line called the axis. The Earth rotates, or turns, on its axis once a day.

Tell students that a globe has other important points and lines. On the classroom globe, show students the North Pole, which is the point at the top of the globe. Another point, the South Pole, is directly opposite the North Pole.

Show students the pictures of the globes. Read about and discuss the axis, and the North and South Poles. Then discuss two other imaginary lines the equator and the prime meridian. Read the captions under each globe to familiarize the students with the definitions of these globe lines. Discuss that the equator is called a line of latitude. This line of latitude divides the Earth horizontally into the Northern and Southern Hemispheres. The prime meridian is a line of longitude, which divides the Earth vertically into the Western and Eastern Hemispheres.

Please note that Week 3 expands on the concept of hemispheres and Week 5 expands on the concepts of lines of latitude and longitude.

Introducing Vocabulary

- axis an imaginary line that passes through the center of Earth between the North and South Poles on which Earth rotates
- equator an imaginary line that runs around the center of Earth, halfway between the North and South Poles at 0" latitude
- homisphoro half of the Earth
- lines of latitude (parallels) imaginary lines on the Earth that run parallel to the equator
- lines of longitude (meridians) imaginary lines that run between the North and South Poles
- North Pole the point north on Earth where the lines of longitude meet (90°N latitude)
- parallel lines lines that are the same distance apart; lines that never meet or cross
- prime moridian an imaginary line that runs from the North Pole to the South Pole of Earth at 0° longitude
- South Pole the point south on Earth where the lines of longitude meet (90°S latitude)

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