

Name: _____ Date: _____

Cosmic Choreography: Earth and the Stars Kindergarten Quiz

Young explorers will act as space architects to synthesize how the shadows in their own backyard reveal the massive movements of our planet.

1. If you were an astronaut looking at Earth, how would you describe how it moves to keep us warm and then cool?

- A. It sits perfectly still like a statue.
- B. It spins like a top while traveling in a giant circle.
- C. It bounces up and down like a basketball.
- D. It only moves when the moon pushes it.

2. Imagine you are building a model of the sky. To show what happens when the Earth blocks the sun's light from hitting the moon, you are making a _____.

- A. Solar Eclipse
- B. Lunar Eclipse
- C. New Moon
- D. Starry Night

3. True or False: If the Earth stopped spinning, one side of the world would stay in bright sunlight all the time.

- A. True
- B. False

4. You notice your shadow is very long in the morning and very short at lunchtime. What does this tell you about Earth?

- A. The Earth is growing bigger.
- B. The sun is walking across the grass.
- C. The Earth is turning us away from or toward the sun.
- D. The clouds are pushing the shadows.

5. If you want to celebrate your birthday at the exact same spot in Earth's journey around the sun, you must wait for one full _____.

- A. Rotation
- B. Month
- C. Revolution
- D. Sunset

6. True or False: The North Pole and the South Pole feel the same amount of heat from the sun all year long.

- A. True

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B. False

7. Why does the ocean water move up and down the beach in a pattern called tides?

- A. Because big fish are swimming together.
- B. The moon's gravity pulls on the water like a magnet.
- C. The wind blows the water away every night.
- D. The sun drinks the water and puts it back.

8. When the Earth leans its top half toward the sun, people living there experience the season of _____.

- A. Winter
- B. Autumn
- C. Summer
- D. Spring

9. True or False: A solar eclipse is a special event where the moon blocks the sun's light from reaching Earth.

- A. True
- B. False

10. If you could design a planet that had no seasons at all, what would you have to change?

- A. Make the planet spin faster.
- B. Remove the tilt so the planet stands straight up.
- C. Add a second moon.
- D. Make the planet stay far away from stars.