

Nova's Cosmic Quest: A Space Quiz

Learning objective: To recall and apply knowledge of the Earth and space, including the solar system, orbits, and the spherical nature of celestial bodies.

Join Nova the barn owl on an adventure through the night sky! Read each question carefully and circle the best answer. Good luck, young astronomers!

Answer Key: 1. C (Sun), 2. True, 3. False (The Earth rotates on its axis), 4. 365.25 days, 5. B (Mercury), 6. False (The Moon orbits the Earth), 7. Gravity, 8. D (Spherical), 9. True, 10. False (The Sun is a star, not a planet).

Word bank: orbit · spherical · axis · solar system · gravity · rotation

1. 1. Which massive object sits at the center of our solar system? A) The Moon B) Jupiter C) The Sun* D) Mars (1 mark)

2. 2. True or False: It takes the Earth approximately 24 hours to complete one full rotation on its axis. (1 mark)

3. 3. True or False: The Sun moves around the Earth to create day and night. (1 mark)

4. 4. How many days does it take for the Earth to complete one full orbit around the Sun? (One-word answer) (1 mark)

5. 5. Which of these is the closest planet to the Sun? A) Venus B) Mercury* C) Earth D) Neptune (1 mark)

6. 6. True or False: The Moon orbits the Sun directly. (1 mark)

7. 7. What invisible force keeps our feet on the ground and holds planets in their orbits? (One-word answer) (1 mark)

8. 8. What is the shape of the Earth, the Moon, and the Sun? A) Apartment B) Square C) Pyramid D) Spherical* (1 mark)

9. 9. True or False: The Earth is tilted on its axis, which helps cause our seasons. (1 mark)

10. 10. True or False: The Sun is the largest planet in our solar system. (1 mark)

Draw: Draw a diagram of the Earth, Moon, and Sun. Use arrows to show the path of the Moon orbiting the Earth and the Earth orbiting the Sun.



Extension challenge: Nova wants to know: If you were an astronaut visiting a new planet, what would you name it and why? Write a short paragraph describing its surface and gravity.