

Nova's Stellar Space Quiz

Learning objective: To identify the planets in the solar system, understand the Earth's rotation, and explain the relative movement of the Earth, Moon, and Sun.

Join Nova the barn owl on a journey through the night sky! Read each question carefully and write your answers clearly. Good luck, space explorers!

Answer Key: 1. C (The Sun), 2. True, 3. Rotate/Rotation, 4. B (24 hours), 5. False (It takes about 365 days), 6. Spherical, 7. A (Moon), 8. True, 9. Gravity, 10. B (Mars).

Word bank: Axis · Orbit · Spherical · Solar System · Rotate · Gravity · Phases

1. 1. What is at the centre of our solar system? A) The Moon, B) The Earth, C) The Sun*, D) Jupiter (1 mark)

2. 2. True or False: The Earth takes one year to complete a full orbit around the Sun. (1 mark)

3. 3. What word describes the Earth spinning on its own axis? (1 mark)

4. 4. How long does it take for the Earth to complete one full rotation? A) 12 hours, B) 24 hours*, C) 30 days, D) 365 days (1 mark)

5. 5. True or False: The Moon produces its own light like a star. (1 mark)

6. 6. What is the shape of the Earth, the Moon, and the Sun? (Clue: They are not flat!) (1 mark)

7. 7. Which of these is a natural satellite of the Earth? A) Moon*, B) Mars, C) The Sun, D) An asteroid (1 mark)

8. 8. True or False: The Earth is tilted on its axis as it orbits the Sun. (1 mark)

9. 9. What invisible force keeps our feet on the ground and pulls objects towards the centre of the Earth? (1 mark)

10. 10. Which planet is known as the 'Red Planet'? A) Venus, B) Mars*, C) Saturn, D) Neptune (1 mark)

Draw: Draw a diagram of the Earth orbiting the Sun. Make sure to draw the Earth tilted on its axis and label the Sun in the centre.



Extension challenge: Nova wants you to imagine you are an astronaut on a new planet! Write a short paragraph describing what the day and night cycle might look like there if that planet rotated much slower than Earth.