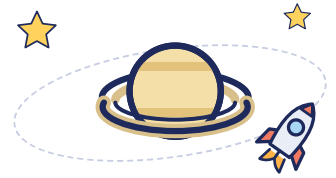


Space Quiz



Orbit Navigators

Grades 6–8 (middle school) · ages 11–14

SCORE

____ / 25

Name _____ Class _____ Date _____

25 questions · 25 points · about 30 minutes



Multiple choice

Fill in the circle next to the best answer.

10 POINTS

- ① A solar eclipse can only happen during which Moon phase?

☐ (A) New Moon
 ☐ (B) Full Moon
 ☐ (C) First quarter
 ☐ (D) Waning crescent
- ② During a lunar eclipse, which object is in the middle?

☐ (A) The Sun
 ☐ (B) Earth
 ☐ (C) The Moon
 ☐ (D) Mars
- ③ What is the main cause of Earth's ocean tides?

☐ (A) Earth's spin alone
 ☐ (B) Winds over the oceans
 ☐ (C) The Moon's gravity
 ☐ (D) Earth's magnetic field
- ④ Earth is farthest from the Sun in July. Why is it summer in the Northern Hemisphere?

☐ (A) Earth's speed increases
 ☐ (B) The Sun's output rises
 ☐ (C) Earth is closer to the Moon
 ☐ (D) That half of Earth tilts toward the Sun
- ⑤ Our solar system began as a collapsing cloud of what?

☐ (A) Gas and dust
 ☐ (B) Liquid water
 ☐ (C) Solid rock
 ☐ (D) Burning metal
- ⑥ About how long does sunlight take to reach Earth?

☐ (A) 8 seconds
 ☐ (B) 8 minutes
 ☐ (C) 8 hours
 ☐ (D) 8 days
- ⑦ Which statement describes the Milky Way?

☐ (A) A cloud of dust inside our solar system
 ☐ (B) A ball-shaped galaxy with no arms
 ☐ (C) A spiral galaxy that contains our Sun
 ☐ (D) A group of planets orbiting one star
- ⑧ For most of its life, a star shines by turning what into what?

☐ (A) Helium into hydrogen
 ☐ (B) Iron into carbon
 ☐ (C) Water into steam
 ☐ (D) Hydrogen into helium

- 9 A space rock that survives the atmosphere and hits the ground is called a what?
- (A) Meteorite (B) Meteor (C) Comet (D) Asteroid
- 10 The tail of a comet always points in which direction?
- (A) Toward the Sun (B) Away from the Sun (C) Along its path (D) Toward Earth



True or false

Circle TRUE or FALSE.

5 POINTS

- 11 Our Sun sits at the center of the Milky Way galaxy. True False
- 12 A light-year is a unit of distance, not time. True False
- 13 The Moon does not rotate, which is why we always see the same side. True False
- 14 A lunar eclipse happens at the full Moon phase. True False
- 15 Venus takes longer to spin once on its axis than to orbit the Sun. True False



Fill in the blank

Choose a word from the word bank to complete each sentence. Each word is used once, and three words are not used. 5 POINTS

WORD BANK

elliptical

Jovian

orbit

red

spiral

supernova

terrestrial

white

- 16 Mercury, Venus, Earth, and Mars have solid, rocky surfaces, so they are called _____ planets.
- 17 A star much more massive than the Sun can end its life in a huge explosion called a _____.
- 18 After its red giant stage, the Sun will shrink into a _____ dwarf.
- 19 The path a planet follows around the Sun is called its _____.
- 20 The Milky Way is a _____ galaxy with curved arms.



Matching vocabulary

Draw a line from each word to what it means.

3 POINTS

21 Comet



A A rocky, airless body, mostly found between Mars and Jupiter

22 Asteroid



B A huge system of stars, gas, and dust held together by gravity

23 Galaxy



C A snowball of frozen gases, rock, and dust that grows a tail near the Sun



Short answer

Answer in one or two complete sentences.

2 POINTS

24 The Moon orbits Earth every month. Why isn't there a lunar eclipse every month?

25 Describe one difference between terrestrial planets and gas giants.
