

Science Quiz

The Sun, the Earth and the Moon

Grade 3 | Circle the correct answer.

— PART 1: THE SUN —

1. Why is the Sun important to plants?

(Hint: Think about what plants need to make food.)

- A) It makes the wind blow.
- B) It gives light so plants can make food.
- C) It makes the soil wet.
- D) It keeps the sky blue.

Answer: _____

2. The Sun keeps the Earth warm. This is important because...

(Hint: Think about what living things need to survive.)

- A) it makes the day longer.
- B) it makes rain fall.
- C) it helps living things stay alive.
- D) it makes the Moon shine.

Answer: _____

3. Which of these is NOT a reason why the Sun is important?

(Hint: The Sun helps us see, keeps us warm, and helps plants. Which one is NOT true?)

- A) It provides light so we can see.
- B) It keeps the Earth warm.
- C) It is the biggest star in the sky.
- D) It helps plants make food.

Answer: _____

4. When does a shadow form?

(Hint: A shadow forms when something blocks light.)

- A) When it is dark.
- B) When an object blocks the light from the Sun.
- C) When the Moon is full.
- D) When the wind blows.

Answer: _____

5. Where does a shadow form compared to the Sun?

(Hint: The shadow goes on the other side — away from the Sun.)

- A) On the same side as the Sun.
- B) In front of the object.
- C) On the opposite side from the Sun.
- D) Under the object.

Answer: _____

6. When is your shadow the shortest?

(Hint: The Sun is highest in the sky at noon.)

- A) In the morning.
- B) At noon (midday).
- C) In the evening.
- D) At night.

Answer: _____

— PART 2: THE EARTH —

7. How many times does the Earth spin in one day?

(Hint: One full spin = one day.)

- A) One time.
- B) Two times.
- C) Three times.
- D) Four times.

Answer: _____

8. What is the line that the Earth spins around called?

(Hint: It is the name for the invisible line through the middle of the Earth.)

- A) Orbit.
- B) Axis.
- C) Phase.
- D) Equator.

Answer: _____

9. Which sentence is TRUE?

(Hint: Only one of these sentences is correct.)

- A) The Sun moves around the Earth.
- B) The Moon moves around the Sun.
- C) The Earth spins around its axis.
- D) The Earth moves around the Moon.

Answer: _____

10. What does the Earth travel around?

(Hint: Think about what is at the centre of our Solar System.)

- A) The Moon.
- B) Another planet.
- C) The Sun.
- D) Its own axis.

Answer: _____

— PART 3: THE MOON —

11. Does the Moon change its shape?

(Hint: The Moon is always a sphere. Only the part we can see changes.)

- A) Yes, it grows bigger and smaller.
- B) No, its shape never changes.
- C) Yes, it becomes flat at night.
- D) No, but it changes colour.

Answer: _____

12. What is the path the Moon takes around the Earth called?

(Hint: It is a circular path with a special name.)

- A) A day.
- B) A phase.
- C) A spin.
- D) An orbit.

Answer: _____

13. What causes the Moon phases (the different shapes we see)?

(Hint: The Moon gets light from the Sun. As it moves, we see different lit-up parts.)

- A) The Earth spinning fast.
- B) The Moon growing and shrinking.
- C) The Moon moving around the Earth, so we see different lit parts.
- D) Clouds covering the Moon.

Answer: _____

14. When we can see the whole circle of the Moon, what do we call it?

(Hint: Full = the whole Moon is lit up.)

- A) New moon.
- B) Crescent moon.
- C) Gibbous moon.
- D) Full moon.

Answer: _____

15. When we cannot see the Moon at all, what do we call it?

(Hint: This happens when the Moon is between the Sun and the Earth.)

- A) Full moon.
- B) Gibbous moon.
- C) New moon.
- D) Crescent moon.

Answer: _____

16. A crescent moon looks like...

(Hint: Think of a thin curved shape, like a banana.)

- A) A big full circle.
- B) A thin curved slice.

- C) A half circle.
- D) A large oval.

Answer: _____

17. A gibbous moon looks like...

(Hint: It is more than half but not quite a full circle.)

- A) A thin curved slice.
- B) A full circle.
- C) More than half a circle but not full.
- D) A tiny dot.

Answer: _____

18. Why does the Moon shine at night?

(Hint: The Moon does not make its own light — it borrows light from something else.)

- A) The Moon makes its own light.
- B) The Moon reflects light from the Sun.
- C) The Earth shines light on the Moon.
- D) The stars light up the Moon.

Answer: _____

Word Box — Important Words to Know:

Axis — the invisible line through the middle of the Earth that it spins around.

Orbit — the circular path the Moon takes around the Earth.

Phase — the shape of the Moon we can see from Earth.

Revolution — one full trip around something (e.g. the Moon going all the way around the Earth).

Reflect — to bounce light off a surface.

Shadow — a dark area formed when an object blocks light.

Answer Key

- 1. B — The Sun gives light so plants can make food.
- 2. C — Warmth from the Sun helps living things survive.
- 3. C — Being the biggest star is not a reason it is important to living things.
- 4. B — A shadow forms when an object blocks sunlight.
- 5. C — Shadows always form on the opposite side from the Sun.
- 6. B — At noon the Sun is highest, so shadows are shortest.
- 7. A — The Earth makes one full spin in one day.
- 8. B — The Earth spins around its axis.
- 9. C — The Earth spins around its axis — this is the true sentence.
- 10. C — The Earth travels (revolves) around the Sun.
- 11. B — The Moon's shape does not change — only the part we see changes.
- 12. D — The Moon's circular path around the Earth is called an orbit.
- 13. C — As the Moon moves around the Earth, we see different lit-up parts.

- 14. **D** — When we see the whole Moon lit up, it is a full moon.
- 15. **C** — When we cannot see the Moon, it is a new moon.
- 16. **B** — A crescent moon is a thin curved slice.
- 17. **C** — A gibbous moon is more than half but not yet full.
- 18. **B** — The Moon reflects (bounces back) light from the Sun.