

5th Grade Science Quiz

Fifteen questions about ecosystems, the solar system, states of matter, and more. Can you pass 5t...

Name / Team:

Score:

1 What are the three states of matter?

- A. Hot, cold, and warm
- B. Solid, liquid, and gas
- C. Hard, soft, and fluid
- D. Heavy, light, and medium

2 What causes day and night on Earth?

- A. The Earth orbiting the sun
- B. The moon blocking the sun
- C. The Earth rotating on its axis
- D. The sun moving across the sky

3 In a food chain, what do we call an animal that eats only plants?

- A. Carnivore
- B. Herbivore
- C. Omnivore
- D. Decomposer

4 What force pulls objects toward the center of the Earth?

- A. Magnetism
- B. Friction
- C. Gravity
- D. Inertia

5 What is the process by which plants make their own food using sunlight?

- A. Respiration
- B. Germination
- C. Photosynthesis
- D. Pollination

6 Which planet is closest to the sun?

- A. Venus
- B. Mercury
- C. Mars
- D. Earth

7 What happens to water when it freezes?

- A. It shrinks
- B. It expands
- C. It stays the same size
- D. It disappears

8 What part of a plant cell captures sunlight for photosynthesis?

- A. Nucleus
- B. Cell wall
- C. Chloroplast
- D. Mitochondria

9 Which layer of the Earth do we live on?

- A. The mantle
- B. The core
- C. The crust
- D. The magma layer

10 What do we call the path the Earth takes around the sun?

- A. Rotation
- B. Revolution
- C. Orbit
- D. Axis

11 What type of rock is formed when melted rock (magma or lava) cools and hardens?

- A. Sedimentary
- B. Metamorphic
- C. Igneous
- D. Mineral

12 In an ecosystem, what role do decomposers play?

- A. They hunt other animals
- B. They produce food from sunlight
- C. They break down dead organisms and return nut...
- D. They provide shelter for other organisms

5th Grade Science Quiz

(continued)

13 What is the largest organ in the human body?

- A. The liver
- B. The brain
- C. The skin
- D. The lungs

14 What gas do humans breathe out that plants need for photosynthesis?

- A. Oxygen
- B. Nitrogen
- C. Carbon dioxide
- D. Hydrogen

15 What causes the phases of the moon?

- A. Earth's shadow falling on the moon
- B. The moon changing shape
- C. The changing angle of sunlight hitting the moon ...
- D. Clouds blocking parts of the moon

5th Grade Science Quiz — Answer Key

1. B Solid, liquid, and gas

The three common states of matter are solid (fixed shape), liquid (takes the shape of its container), and gas (fills its entire container). Plasma is sometimes called the fourth state.

2. C The Earth rotating on its axis

The Earth rotates (spins) on its axis once every 24 hours. The side facing the sun has daytime, and the side facing away has nighttime.

3. B Herbivore

Herbivores eat only plants. Carnivores eat only meat. Omnivores eat both. Examples of herbivores include deer, rabbits, and cows.

4. C Gravity

Gravity is the force that pulls objects toward each other. Earth's gravity is what keeps us on the ground and what makes things fall when we drop them.

5. C Photosynthesis

During photosynthesis, plants use sunlight, water, and carbon dioxide to make glucose (sugar) and oxygen. This is why plants need light to grow.

6. B Mercury

Mercury is the closest planet to the sun at about 36 million miles. Despite being closest, it is not the hottest planet. Venus is hotter due to its thick atmosphere.

7. B It expands

Water is unusual because it expands when it freezes. This is why ice floats on water and why pipes can burst in winter.

8. C Chloroplast

Chloroplasts contain chlorophyll, the green pigment that captures sunlight energy. This is why most plants are green.

9. C The crust

The crust is the outermost layer of the Earth. It is very thin compared to the other layers, like the skin of an apple.

10. C Orbit

The Earth's orbit around the sun takes about 365.25 days (one year). The orbit is slightly elliptical (oval-shaped), not a perfect circle.

11. C Igneous

Igneous rocks form from cooled magma or lava. Examples include granite (cooled slowly underground) and obsidian (cooled quickly at the surface).

12. C They break down dead organisms and re...

Decomposers like fungi and bacteria break down dead plants and animals, returning nutrients to the soil where they can be used by new plants. They are essential for recycling nutrients.

13. C The skin

The skin is the largest organ, covering about 20 square feet in adults. It protects the body from germs, regulates temperature, and allows us to feel touch.

14. C Carbon dioxide

Humans exhale carbon dioxide, which plants absorb for photosynthesis. Plants release oxygen as a byproduct, which humans breathe in. It is a perfect cycle.

15. C The changing angle of sunlight hittin...

As the moon orbits Earth, we see different amounts of its sunlit side. A full moon means we see the entire sunlit side. A new moon means the sunlit side faces away from us.