

1. What is an observation?

- A) A guess about what will happen
 - B) Information collected using senses or tools
 - C) A final answer to a problem
 - D) A type of experiment
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2. Which of the following is a good research question?

- A) Why are plants nice?
 - B) Do plants like light everyday?
 - C) How does plant height change when light increases?
 - D) Are plants better than animals?
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3. What is a hypothesis?

- A) The results of an experiment
 - B) A possible explanation that can be tested
 - C) A measurement tool
 - D) A type of graph to explain something
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4. Which sentence is a prediction?

- A) Plants need sunlight to grow
 - B) Light affects plant growth
 - C) The plant with more light will grow taller
 - D) Plants are living things
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5. In an experiment about light and plants, what is the independent variable?

- A) Plant height
 - B) Type of plant
 - C) Amount of light
 - D) Soil color
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6. What is the dependent variable in that same experiment?

- A) Amount of water
- B) Plant height
- C) Type of pot
- D) Light source

7. Why are controlled variables important?

- A) They make the experiment faster
 - B) They help measure results
 - C) They ensure only one factor changes
 - D) They are always the independent variable
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8. What do results show?

- A) What we think will happen
 - B) What actually happened in the experiment
 - C) The question we asked
 - D) The materials we used
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9. Which layer includes all living things?

- A) Atmosphere
 - B) Hydrosphere
 - C) Lithosphere
 - D) Biosphere
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10. What is the main function of the atmosphere?

- A) Provide rocks and soil
 - B) Store all water
 - C) Protect Earth and provide air
 - D) Grow plants and animals
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11. Which is an example of the hydrosphere?

- A) Mountains and volcanos
 - B) Rivers and oceans
 - C) Air and gas
 - D) Animals that live in the water
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12. What does the lithosphere include?

- A) Air and gases
- B) Water bodies
- C) Rocks, soil, and land
- D) Living organisms

13. Why are all Earth systems important together?

- A) They are independent and do not interact
 - B) Only one system supports life
 - C) They work together to support life on Earth
 - D) Only water is necessary for life
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14. Which example shows interaction between systems?

- A) Fish swimming in the ocean
 - B) A rock sitting alone
 - C) Air moving in the sky
 - D) A mountain with no plants
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15. Which situation involves the biosphere, hydrosphere, and atmosphere?

- A) A volcano erupting
- B) A plant growing using sunlight, air, and water
- C) A rock breaking in two equal parts
- D) Wind moving sand in the beach