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 expalin 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