

Study Island

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Scientific Investigations

1. Reese learns in class that hot lava in a volcano is liquid rock.

What would be a good model to help Reese understand how rock can change into a liquid?

- A. a ball rolling down a hill
 - B. clothes drying in a dryer
 - C. chocolate mixing with milk
 - D. ice melting into water
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Scientific Investigations

2. Mr. Jenson's class is observing the growth of one kind of pea plant.



The class wants to design an experiment to answer the question, "What amount of water will cause the plants to produce the greatest number of peas?"

What could the class do to create the experiment?

- A. stop watering all of the pea plants and then count the number of peas that the plants produce
- B. give all of the pea plants different amounts of water and count the number of peas that the

plants produce

- give all the pea plants different amounts of water and only guess the number of peas that
- C. the plants produce

 - give all the pea plants the same amount of water and count the number of peas that the
 - D. plants produce
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Lab Tools & Safety

3. What type of information does a thermometer show?

- A. volume
 - B. temperature
 - C. distance
 - D. mass
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Scientific Investigations

4. The students in Mrs. Cosby's class were observing worms. The students wanted to find out if a worm's body weight is related to how much food it eats.

For their experiment, the students set up five containers in the same place, each with the same type of worm. They measured the starting weight of each worm before they began, and then offered the same amount and type of food to all the worms.

What data must they collect during their experiment?

- A. the amount of food consumed and the length of the worms
 - B. the type of food consumed and the final weight of the worms
 - C. the amount of food consumed and the final weight of the worms
 - D. the color of the food and the final weight of the worms
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Scientific Investigations

5. Haley knows that plants and animals are made up of many different materials. She wants to know how these materials can cycle through an ecosystem.

What question could Haley ask to learn more about this topic?

- A. What kind of organism is the most popular at Haley's school?
 - B. What will happen to a sunflower plant if it is grown in a dark closet?
 - C. What happens to the materials that make up a living organism after it dies?
 - D. What kind of plant should Haley buy her mom for her birthday?
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Interpreting & Communicating Data

6. Mary Lou wanted to grow the tallest bean plants possible. She thought that adding some kind of fertilizer might help her plants grow tall.

She used the Internet to look up scientific studies that might tell her the effect of different natural fertilizers on plant growth. One study had the graph shown below.



Based on this graph, which fertilizer should Mary Lou use in order to have the tallest beans?

- A. manure
 - B. compost
 - C. seaweed
 - D. no fertilizer
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Lab Tools & Safety

7. Natasha wants to know how long it will take for a cup of water to freeze completely.

Which of the following tools can she use to keep track of time?

- A. compass
- B. balance
- C. clock
- D. thermometer

Interpreting & Communicating Data

8. Mrs. Baker's class is feeding their pet fish two different kinds of food. Food A is blue and rectangular. Food B is green and round.



All of the fish eat food B only. One of the students says that the fish like food B because the fish like the color green. Another student says that the fish like food B because the fish like round-shaped food.

Which student's conclusion is valid?

- Both conclusions could be valid because there are different ways to interpret the same
- A. results.
 - B. organisms.
 - C. color.
 - D. shape.

Lab Tools & Safety

9. Mai has a recipe for a fruit drink that she would like to make for her whole science class.

Mai's Fruit Drink



Mai's recipe only makes enough to serve 6 people. There are 24 people in Mai's science class.

How many cups of crushed pineapple will Mai need in order to make enough for her whole class?

- A. 6 cups
- B. 8 cups
- C. 4 cups
- D. 2 cups

Interpreting & Communicating Data

10. Sierra asked her friends which color they liked best. Her data is shown below.



Look at the data. Based on the graph, which is true?

- A. Sierra only wears yellow clothes.
 - B. Two of Sierra's friends were wearing blue shirts.
 - C. Ten of Sierra's friends like purple.
 - D. Fewest of Sierra's friends like pink.
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