

Speed up my solution

MATERIALS:

Cold water

Detergent powder

Detergent soap

Glasses

Hot water

Salt

Spoon

Sugar

PROCEDURES:

A)

1. Prepare two drinking glasses half-filled with water.
2. Put one teaspoon of salt into each glass.
3. Stir the water in one glass. Do not stir the water in the other glass.
4. Observe what happens
5. Answer the following questions.
 - a. In which glass of water did the salt dissolve faster?
 - b. What do you think will happen if you did not stir the water in the other glass?
 - c. What made the salt particles dissolve faster?

Why do you think this happened?

B)

1. Fill half of a drinking glass with cold water.
2. With the help of an adult, fill half of another glass with hot water.
3. Place one teaspoon of sugar in each glass.
4. Observe what happens
5. Answer the following questions in your notebook.
 - a. In which glass did the sugar dissolve faster?
 - b. What made the sugar in one glass dissolve faster than sugar in the other glass?
 - c. What factor affects the sugar to dissolve faster in one glass?

C)

1. Prepare two drinking glasses, a teaspoon of powder soap, and a small piece of a detergent bar.
2. Place equal amounts of water in the glasses.
3. Put the powdered soap in one of the glasses and the piece of detergent bar in the other glass.
4. Observe which solid dissolves faster.
5. Answer the following questions. Write the answers in your notebook.
 - a. In which glass did the detergent dissolve faster?
 - b. What factors affect the speed of solubility between the powdered soap and detergent bar?

Guide Questions:

1. How does stirring affect solubility?
2. How does crushing affect solubility?
3. How does temperature affect solubility?