

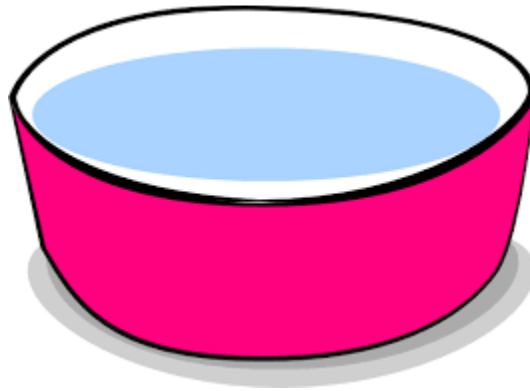
Name _____

Date _____

MAKING A SOLUTION

Here is an exercise for you before you answer the following questions.

Mix together in a container food dye and water. Observe the mixture then answer the following questions.



1. QUESTION

What happens when you mix the two liquids?

- The two liquids mix evenly.
- The two liquids did not mix.
- The two liquids mix somewhat.

2. QUESTION

This mixture can be called _____.

- | | |
|------------------------------------|-------------------------------------|
| <input type="checkbox"/> a solute | <input type="checkbox"/> a solution |
| <input type="checkbox"/> a solvent | <input type="checkbox"/> a system |

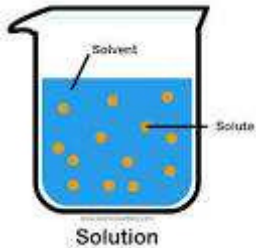
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3. QUESTION

Read the statement below. Then match the following.

The **solute** is placed in the **solvent** and the concentrated solute slowly breaks. Once you stir the liquid, the molecules of the solvent make room for the molecules of the solute until the substances are equally distributed throughout.



SORT ELEMENTS - solvent. Solution. solute.

The dye is the

The water is the

The dye-water mixture is the

4. QUESTION

What would happen if you mix powdered dye with hot water?

- It would mix evenly like cold water.
- It would dissolve faster than cold water.
- It would dissolve slower than cold water.

5. QUESTION

Let's consider the bubbles in a can of soda. Why do you think there are more gas bubbles coming out when you first open the can?

- The fizz (carbon dioxide) is stronger when you first open the can.
- High pressure that kept the fizz (the carbon dioxide) lost when the can is first opened.
- The gas (carbon dioxide) is stronger when you first open the can.
- The gas (carbon dioxide) weakens as it gets older.

Name _____

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6. QUESTION

Match the following.

SORT ELEMENTS

○ mixture molecules solution water

Sugar dissolves faster in	
sugar and water is a	
oil and water is a	
Concrete mixture contains separate	