



## Science Wrap-Up

### Mixtures and Solutions

1. Check the correct answer.

a- A homogeneous mixture:

- Is a pure substance
- Its constituents can be distinguished with the naked eye.
- Its constituents can't be distinguished with the naked eye.

b- A mixture is made up of:

- One substance
- Only two substances
- Two substances or more

c- All dissolve in water EXCEPT:

- Sugar
- Oil
- Syrup

d- An example of a pure substance is:

- Gold
- Milk
- Lemonade

2. Drag the X and drop it next to the intruder in each group of mixtures, then determine the type of mixtures for the others.

**X**

|                  |                          |
|------------------|--------------------------|
| Salty water      | <input type="checkbox"/> |
| Sweet water      | <input type="checkbox"/> |
| Water + oil      | <input type="checkbox"/> |
| Water + blue ink | <input type="checkbox"/> |

↓

Type of mixture

**X**

|                       |                          |
|-----------------------|--------------------------|
| Water + oil           | <input type="checkbox"/> |
| Water + rice          | <input type="checkbox"/> |
| Water + food coloring | <input type="checkbox"/> |
| Water + beans         | <input type="checkbox"/> |

↓

Type of mixture

3. Lara performed the following experiments.

a- She mixed two substances: water and salt.

- What is the kind of this mixture?

Choose the correct justification:

b- Then she made another mixture: water + sugar + black ink + oil + beans

- What is the kind of the new mixture?

Choose the correct justification:

- In this mixture: (water + sugar + black ink + oil + beans), determine:

- The liquid that dissolves in water:

- The liquid that doesn't dissolve in water:

- The solid that dissolves in water:

- The solid that doesn't dissolve in water:

4. Indicate the **solvent** and the **solute** for each solution.

a. Solution: water + Salt

Solvent:

Solute:

b. Solution: water + sugar

Solvent:

Solute:

c. Solution: Acetone + Nail polish

Solvent:

Solute:

d. Solution: Water + ink

Solvent:

Solute:

e. Solution: Alcohol + iodine

Solvent:

Solute:

f. Solution: water + food coloring

Solvent:

Solute:

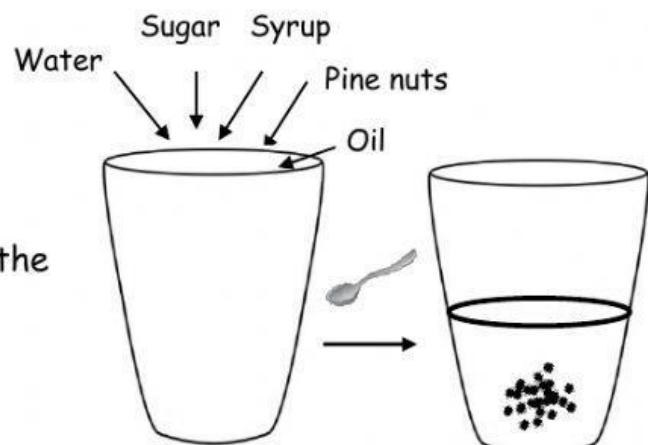
5. Roy was performing an experiment.

He put in the cup: water, sugar, syrup, oil, and pinenuts. Then he stirred them.

a- **State** the type of the mixture?

b- Is this mixture a solution? **Choose** the

Correct answer:



c- Deduce:

- Which solid substance is no more visible

in water?  

- Which liquid substance is no more

visible in water?  

d- List the substances that don't dissolve in water.

