



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

Sweet water

Water + oil

Water + blue ink

↓

Type of mixture

X

Water + oil

Water + rice

Water + food coloring

Water + beans

↓

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:

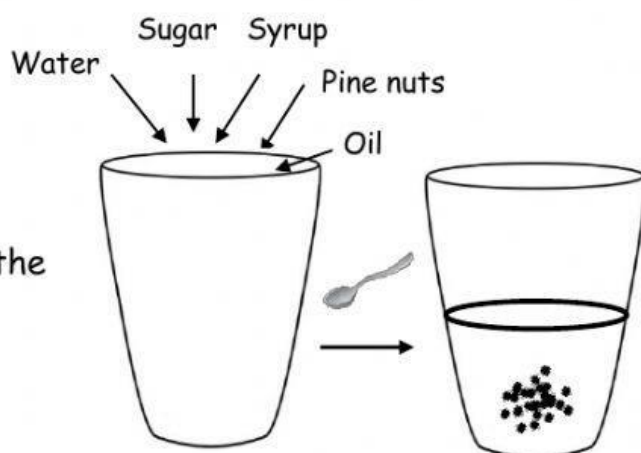
5. Roy was performing an experiment.

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.

