

Name:

Solubility experiments

Eye protection is essential for these experiments. Wear goggles.

First experiment:

1. Half fill 3 test tubes with distilled water.
2. Add a $\frac{1}{2}$ spatula of each of the following chemicals to one of the test tubes in turn.
3. Stopper each test tube and gently invert (turn upside down) a number of times to try to dissolve the solid.
4. Record your results in the table below.

Substance	What you see when you mix it with water	Soluble or insoluble in water
Sodium chloride		
Copper carbonate		
Copper sulphate		

Second experiment:

1. Add exactly 20 cm³ of distilled water to a boiling tube.
2. Add exactly 10 g of copper sulphate.
3. Heat the test tube in a beaker of hot water from a kettle. Measure the temperature of the water.
4. When the boiling tube has warmed up (about 5 - 10 minutes) gently stir the contents.
5. Stand the boiling tube in a rack to cool.

Record all of your observations.