

Solutions

Each answer shows the steps, then the **result**.

2.1

- Any two: gas produced, precipitate, color change, temperature change, light

2.2

- A precipitate (an insoluble solid)

2.3

- No — it is physical; the sugar keeps its identity and can be recovered by evaporation

3.1 B

- a precipitate forming is a new substance, evidence of a chemical reaction

3.2

(a)

- Bubbling (gas produced) and warming (temperature change)

(b)

- Bubbling can also be physical (e.g. boiling), so it is not conclusive on its own

3.3

(a)

- chemical

(b)

- physical

(c)

- chemical