Answer sheet

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IG Teaching Hubs Chemistry Worksheets

Lesson 37 – Worksheet 1

**1** Anions in unknown solutions correctly identified using the students’ results.

**2** The acid reacts with carbonate ions, so silver carbonate and barium carbonate cannot form. These would interfere with the results of the tests/produce false positive results.

Lesson 37 – Worksheet 2

**1**

|  |  |  |
| --- | --- | --- |
| dilute hydrochloric acid | barium chloride solution | white |
| dilute nitric acid | silver nitrate solution | cream |
| limewater | turns milky | yellow |

**2** **a** measuring the melting/freezing point and/or boiling point of the sample

**b** melts/freezes at0 °C and/or boils at 100 °C

IG Teaching Hubs Chemistry Homework sheets

Lesson 37 – Homework

**1 a** nitric acid

**b** white

**c** SO42−

**2 a** Pass the bubbles/gas through limewater, which turns milky/cloudy white if the gas is carbon dioxide.

**b** carbonate ion/CO32–

**3 a** hydrochloric acid

**b** chloride; Cl−

**c** Sodium iodide solution produces a yellow precipitate. Potassium bromide produces a cream precipitate.

**4** 21 g/dm3 is below the 83 g/dm3 recommended, and safer than higher concentrations. The concentration is still large enough to obtain precipitates in chemical tests.