

01. 0620_s13_ms_61 Q: 3

(c) Table of results for Experiments 1–4

mass of solids correctly recorded (1) 1, 2, 3, 5 g

initial and maximum temperature boxes correctly completed (1)

initial 21, 23, 22, 24

maximum 23, 27, 28, 34

temperature differences correct (1) 2, 4, 6, 10 [3]

(d) results for Experiment 5

initial and final temperatures completed 21 and 13 (1)

temperature change completed correctly and shown as negative –8 (1) [2]**(e)** all points correctly plotted 3–1 for any incorrect

straight line graph drawn with a ruler (1) [4]

(f) (i) value from graph $12^{\circ}\text{C} \pm$ half small square (1)extrapolation shown clearly (1) **allow:** ecf [2]**(ii)** value from graph $4.5\text{ g} \pm$ half small square (1)indication shown clearly (1) **allow:** ecf [2]**(g)** endothermic (1) [1]**(h)** lower temperature change (1) 3°C (1)

greater volume/more acid (1) any 2 for [2]

(i) room temperature or initial temperature from table 24°C (1)

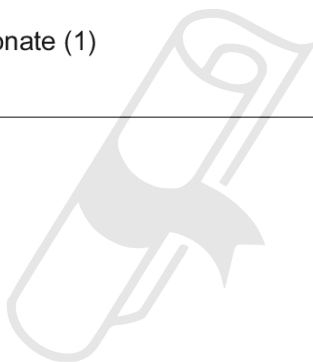
reaction finished / owtte (1) [2]

(j) advantage, e.g. comparability of results / fair test (1)**ignore:** reference to reliability / accuracy

disadvantage, e.g. reaction not finished / temperature still changing / may not reach maximum temperature (1) [2]

02. 0620_s13_ms_61 Q: 4
tests on filtrate

- (a) colourless (1) [1]
ignore: clear, **not:** white
- (b) white (1) precipitate (1)
soluble in excess / dissolves (1) [3]
- (c) white precipitate (1)
Insoluble / does not dissolve (1) [2]
- (d) white (1) precipitate (1) [2]
- (e) no reaction / no change / no precipitate (1) [1]
- (g) transition metal / copper (1) carbonate (1) [2]
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