

01. 0620_s12_ms_61 Q: 2

- (a) thermometer readings correct (3), -1 for any incorrect
 methanol 25 28 3
 ethanol 26 39 13
 propanol 23 46 23
 butanol 24 58 34
 temperature rises correct (1) [4]
- (b) points plotted correctly $\pm 1/2$ small square (3)
 straight line drawn with a ruler (1) [4]
- (c) value from graph (1) unit (1) 44°C
 extrapolation shown on grid (1) [3]
- (d) temperature rises would be greater/faster/quicker (1)
 copper is a good conductor (1) [2]

[Total: 13]

02. 0620_s16_ms_61 Q: 1

(a)	fractionating column; tripod;	1 1	2
(b)	water labelled twice;		1
(c)	heat under (the collecting) beaker;		1
(d)	M1 ethanol; M2 lowest/lower boiling point;	1 1	2
(e)	ethanol is flammable;		1

03. 0620_s17_ms_63 Q: 1

(a)(i)	(delivery) tube		1
(a)(iii)	arrow beneath the tube containing the mixture of alcohols		1
(b)	to cool		1
	the gas into a liquid		1
(c)	to measure the temperature of the vapour/temperature of liquid would not be constant		1
(d)	E shown on the test-tube in water bath		1
(e)(i)	lighted splint ignites the liquid/test for water, e.g. add anhydrous copper(II) sulfate gives a negative result		1
(e)(ii)	melting/boiling point determination		1

04.0620_w13_ms_61 Q: 1

- (a) funnel (1) [1]
- (b) to move products through the apparatus / owtte e.g. let the gases go out (1) [1]
- (c) (i) limewater (1)
to detect carbon dioxide (1) [2]
- (ii) so gas bubbles through liquid (1) [1]
- (d) condensation / drops (1) water (1) [2]
allow: black deposit (1) soot / carbon (1)
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05.0620_w19_ms_61 Q: 1

(a)	beaker	1
(b)	steam / (water) vapour	1
	condenses / cools	1
(c)	anhydrous copper(II) sulfate / cobalt(II) chloride (paper)	1
	turns blue / pink	1
(d)	to suck gases / products through apparatus	1
(e)	turns milky	1
	carbon dioxide formed	1

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