

Name of the Student: _____

Max. Marks : 19 Marks

Time : 19 Minutes

Mark Schemes

Q1.

- (a) chemical
correct order only 1
- kinetic 1
- sound 1
- (b) 48% or 0.48
an answer of 0.48 with a unit gains 1 mark
an answer of 0.48% gains 1 mark
an answer of 48 with or without a unit gains 1 mark 2
- [5]**

Q2.

- (a) 20 790 (J)
an answer of 21 000 (J) (2 s.f.) gains 2 marks
allow 1 mark for correct substitution:
ie $E = 0.33 \times 4200 \times 15$ provided no subsequent step shown 2
- (b) temperature 1
- (c) (top pan) balance
accept scales
*do **not** accept a scale*
*do **not** accept weighing scales*
*do **not** accept newtonmeter*
*do **not** accept spring balance* 1
- (d) dark / black / (dark) grey 1
- convection
correct order only 1

(e)	(i)	created <i>accept made</i>	1	
	(ii)	increases	1	
				[8]

Q3.

(a)	(i)	electrical <i>correct order only</i>	1	
		kinetic	1	
		sound	1	
	(ii)	transferred into surroundings / atmosphere <i>accept warms the surroundings</i> <i>allow released into the environment</i> <i>becomes heat or sound is insufficient</i>	1	
(b)		0.7 / 70 % <i>an answer of 70 without % or with the wrong unit or 0.7 with a unit gains 1 mark</i>	2	
				[6]