### Practice Question Set For GCSE

**Subject: Physics** 



# Paper-1 Topic: GCSE Triple Science\_Particle Model Of Matter (Low Demand Questions)

Name of the Student:	
Max. Marks: 18 Marks	Time: 18 Minutes

Mark Schemes

## Q1.

(a) kg

allow kilogram

1

°C

allow degrees Celsius

(b)



1

 $P = 12^2 \times 15$ (c)

1

P = 2160 (W)

1

(d) The heating element in the kettle takes time to heat up

1

Level 3: The method would lead to the production of a valid outcome. All key steps are identified and logically sequenced.

5-6

Level 2: The method would not necessarily lead to a valid outcome. Most steps are identified, but the method is not fully logically sequenced 3-4

3-4

Level 1: The method would not lead to a valid outcome. Some relevant steps are identified, but links are not made clear.

1-2

#### No relevant content

0

Indicative content:

measure the mass of water using a balance

measure the volume of water using a measuring cylinder

- measure the initial temperature of the water
- pour the water into the kettle
- put temperature probe in the water

	<ul> <li>measure time with a stopclock</li> <li>use an interval of 5 seconds</li> </ul>	
(f)	$\Delta\Theta = 80 (^{\circ}\text{C})$	1
	$E = 0.50 \times 4200 \times 80$ allow $E = 0.50 \times 4200 \times$ their value of $\Delta\Theta$	1
	E = 168 000 (J) allow an answer consistent with their value of $\Delta\Theta$	1
(g)	m = 0.005 (kg)	1
	$E = 0.005 \times 2\ 260\ 000$ this mark may score if m is not/incorrectly converted	1
	F = 11.300 (J)	

allow an answer consistent with their value of m

put a thermometer in the water

switch kettle on

[18]