Practice Question Set For GCSE

Subject: Physics

Paper-2 Topic: 14_Particle Model



Name of the Student:		
Max. Marks : 14 Marks	Time : 14 Minutes	
Q1.		
Answer the question with a cross in the box you think is correct \boxtimes . If you chanswer, put a line through the box \boxtimes and then mark your new answer with a	•	
Which of these means changing state from solid directly to gas?		
A condensing B freezing C melting D sublimating (To	tal for question = 1 mark)	
Q2.		
An electric heater is used to heat some water.		
Figure 8 shows the experimental setup used.		

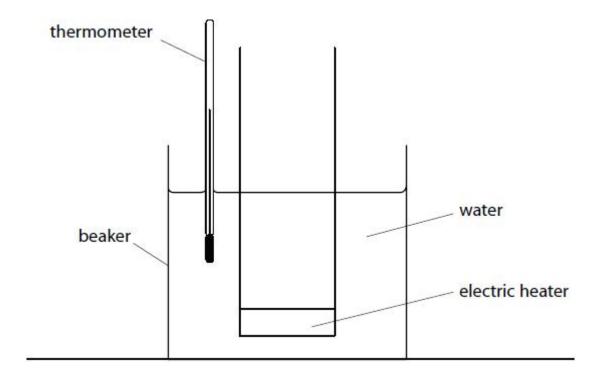
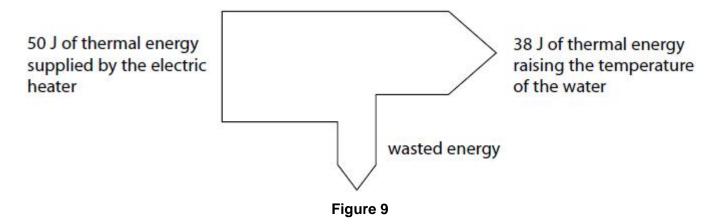


Figure 9 shows the energy transferred by the electric heater in 1 second.



Explain **one** way the experiment can be improved to reduce the amount of wasted energy.

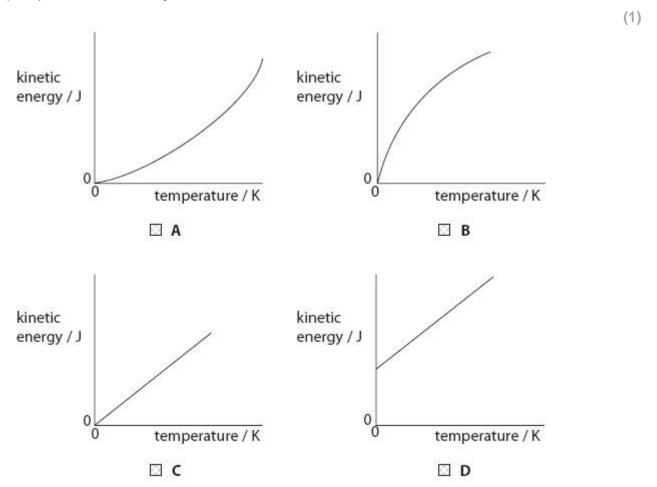
(2)

(Total for question = 2 marks)

Q3.

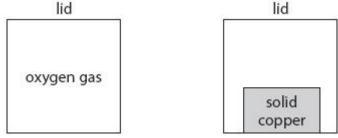
Which graph shows the way in which the average kinetic energy of the molecules of a gas changes with temperature?

Put a cross (\boxtimes) in the box next to your answer.



Q4.

* The diagrams show a block of solid copper and some oxygen gas in two closed containers.



The oxygen exerts a pressure on the lid of its container.

The copper does not exert a pressure on the lid of its container.

Explain, using kinetic theory, why the oxygen exerts a pressure on the lid but the copper does not.

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(6)

Q5.	
Visation the convenience the consequence of a cuticles in the three extracts of months.	
Kinetic theory describes the movement of particles in the three states of matter. Gas is one of the states of matter.	
(i) Name the other two states of matter.	
(i) Name the other two states of matter.	(2)
1	(2)
2	
(ii) Complete the sentence by putting a cross (\boxtimes) in the box next to your answer.	
The average kinetic energy of the particles in a gas is directly proportional to	(1)
■ A the pressure of the gas	
B the temperature of the gas measured in degrees Celsius	
C the temperature of the gas measured in Kelvin	
D the volume of the gas	

Q6.

Which row in the table is correct?

	particles in a solid	particles in a gas
□ A	move freely	move freely
□B	move freely	vibrate about fixed positions
C	vibrate about fixed positions	move freely
D	vibrate about fixed positions	vibrate about fixed positions

(1)

(Total for question = 1 mark)