Practice Question Set For GCSE

Subject: Physics

Name of the Student:_



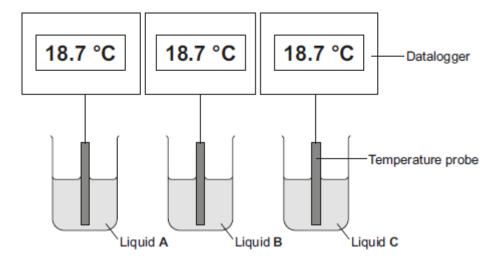
Paper-1 Topic: GCSE Triple Science_Particle Model Of Matter (High Demand Questions)

Idx. Ividiks: 17 Ividiks		Time: 17 Minutes
Q1. A student wants to calculate the de	ensity of the two objects shown in the	figure below.
Metal cube	Small statue	
© Whitehoune/iStock/Thinkstock,	© Marc Dietrich/Hemera/Thinkstoc	:k
Describe the methods that the stud	dent should use to calculate the densit	ties of the two objects.
		
		 (Total 6 marks)

Q2.

A student investigated the cooling effect of evaporation. She used the equipment in **Figure 1** to measure how the temperature of three different liquids changed as the liquids evaporated.





(a) The temperature and volume of each liquid was the same at the start of the investigation.

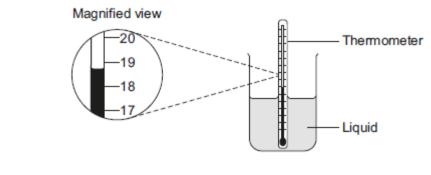
State **one** further control variable in this investigation.

(1)

(2)

(b) Give **two** advantages of using dataloggers and temperature probes compared to using the thermometer shown in **Figure 2**.

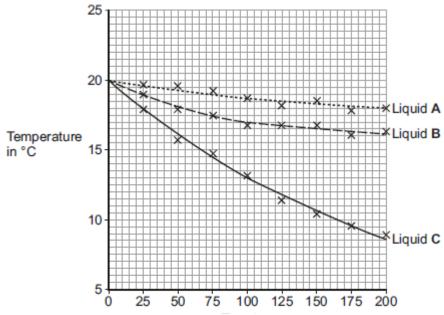
Figure 2



1. _____

(c) The student's results are shown in **Figure 3**.

Figure 3



Average rate of temperature decrease =°	°C / s
Give one conclusion that can be made about the rate of temperature decrease of a hree liquids from the results in Figure 3 .	all
Which liquid had the lowest rate of evaporation? Give a reason for your answer. _iquid	
Reason	
A second student did the same investigation but using a smaller volume of liquid the first student.	han
All other variables were kept the same.	
What effect would this have on the results of the second student's investigation?	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Give one conclusion that can be made about the rate of temperature decrease of a hree liquids from the results in Figure 3. Which liquid had the lowest rate of evaporation? Give a reason for your answer. iquid

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