Particle Model of Matter

Past Paper Answers AQA Physics GCSE

Question	Answers	Extra information	Mark
1	Solid	2 marks for all correct 1 mark for 1 or 2 correct	2
2	В		1
3	D		1
4	the kinetic energy of the particles		1
5	E = 0.250 × 334 000		1
	E = 83 500 (J)		1
6	sublimates		1
Total			8

Question	Answers		
7	Level 2: The method would lead to the production of a valid outcome. The key steps are identified and logically sequenced.		
	Level 1: The method would not necessarily lead to a valid outcome. Some steps are identified, but the method is not fully logically sequenced.		
	No relevant content		
	Indicative content use a eureka/displacement can fill the eureka/displacement can with water fill the eureka/displacement can up to the spout place lime in eureka/displacement can collect water that overflows use a measuring cylinder to measure volume of water OR use a measuring cylinder part fill the measuring cylinder with water measure the initial volume of water place lime in measuring cylinder record new volume of water volume of lime = new volume – initial volume		
8	mean = $\frac{(2.1+2.1+2.4)}{3}$	1	
	mean = 2.2 (cm ³)	1	
9	allows anomalous results to be identified and ignored	1	
	reduces the effect of random errors when using the equipment	1	

10	density = $\frac{84}{120}$	1
	density = 0.70 (g/cm ³)	1