- 1. D
- **2.** D
- **3.** B
- 4. C
- 5.

(a) speck of light B1
that moves haphazardly/randomly/jerkily/etc. B1 [2]
(b) randomness of collisions would be 'averaged out' B1
so less (haphazard) movement B1 [2]
(do not allow 'more massive so less movement')

6.

ans		
(a)	Safety precaution liquid might overflow & igniteor vapour might ignite ANY TWO VALID COMMENTS	2
(b) (i) (ii) (iii) (iv)	cooling1solidifying1exothermic137 °C1singlemelting temperature1	
	room temperature	6
	7	otal 8
7. (a) (i)	A description to include:	
	1. particles moving;	
	 in all directions/randomly / or implied by description (each other / walls); 	2
	[Arrows on diagram acceptable]	
	(ii) An explanation to include:	
	1. particles hit/collide with container walls;	
	2. producing a force;	2
	(iii) pressure would increase/get bigger/larger;	1
(b)	statements 2, 3 and 4 ticked ; ; ; [If more than 3 ticked then deduct 1 mark for each error]	3

(c) An explanation to include two from:

2. particles hit more often/hit harder;3. particles moving faster / more energy;2	
3. particles moving faster / more energy; 2	
plus one communication mark for presenting relevant information in a form that suits its purpose 1 [[11]