Question number	Answer	Notes	Marks
3 (a)	minimum of three straight arrows for different particles (with different lengths); arrows in different directions;	judge by eye arrows need not be attached to particles but it should be clear which particle they refer to	2
(b)	any three from: MP1. particles collide/impact/eq; MP2. with sides/walls of container; MP3. idea that force is produced; MP4. idea of pressure as force on an area;	allow hit for collide allow particle changes momentum p = F/A	3
(c)	idea that pressure increases/eq;		1
(d)			3
	Statement	Tick ()	
	the gas particles get bigger		
	the mass of gas particles stays the same	✓	
	the gas particles move faster	✓	
	the average distance between gas particles increases	✓	
	the temperature of the gas decreases	;	
	one mark for each correct;;; if 4 ticks then max mark is 2 if 5 ticks then zero marks		
		total marks = 9	