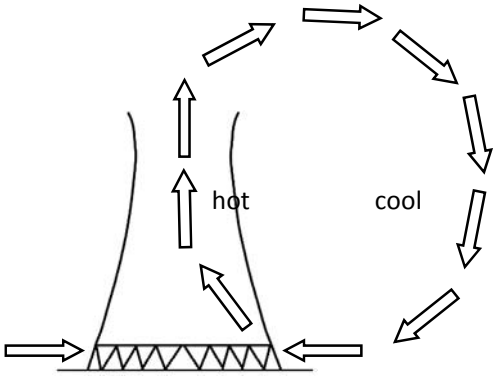
Question number	Answer	Notes	Marks
8 (a)	any four of: MP1. (due to) convection; MP2. (heated) air expands OR molecules move apart; MP3. (heated) air becomes less dense; MP4. **hot** / **less dense** air rises; MP5. idea that air entering from outside is **cool(er)**; MP6. (above the cooling tower) air cools and {contracts / becomes more dense}; MP7. **cool** / **denser** air falls (outside the cooling tower); MP8. process (of convection) is repeated / continuous; e.g. (diagram for MP4, MP5, MP7 and MP8)  	allow particles for molecules reject 'molecules expand' reject 'molecules become less dense'	4
(b)	any three of: MP1. temperature <u>proportional</u> to (average kinetic) energy; MP2. idea that particles leave the surface / escape the liquid / turn into a gas; MP3. highest energy **particles** leave the liquid; MP4. idea that (average kinetic) energy of (remaining particles in) liquid is reduced;	 allow idea that gas **particles** have higher (average kinetic) energy / speed than particles in liquid; allow (average) speed of particles in liquid reduced	3

Total 7 marks