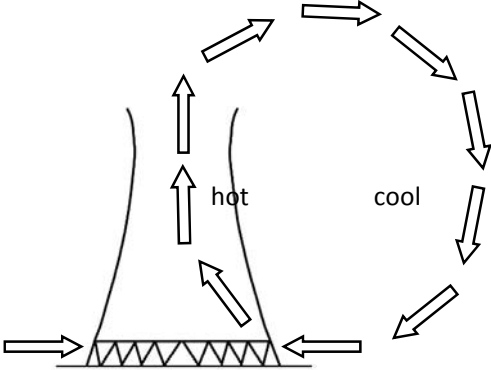


Question number	Answer	Notes	Marks
8 (a)	<p>any four of:</p> <p>MP1. (due to) convection;</p> <p>MP2. (heated) air expands OR molecules move apart;</p> <p>MP3. (heated) air becomes less dense;</p> <p>MP4. hot / less dense air rises;</p> <p>MP5. idea that air entering from outside is cool(er);</p> <p>MP6.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

Total 7 marks