

Question number	Answer	Notes	Marks
10	<p>any six from:</p> <p><b>discussion of conduction</b>  MP1. metal spike conducts the thermal energy;  MP2. thermal energy is conducted into middle of/inside the potato;</p> <p><b>discussion of convection</b>  MP3. convection (current) occurs;  MP4. due to density of air decreasing / air expanding;  MP5. potato receives hotter air near the top;</p> <p><b>discussion of radiation</b>  MP6. thermal energy is radiated/emitted from the black surface;  MP7. potato absorbs thermal energy from all sides;</p> <p><b>general</b>  MP8. electrical energy is transferred into thermal energy in the heating element;</p>	<p>allow 'heat' for thermal energy throughout</p> <p>metal is a good conductor (of thermal energy)  allow potato is heated / cooked from the inside</p> <p>ignore references to absorption at walls  allow potato is heated / cooked from the outside</p> <p>total marks = 6</p>	6