

Science topics	Section layout	Accompanying worksheets	Lesson considerations
<ul style="list-style-type: none"> <li>● Heat transfer.</li> <li>● Conduction.</li> <li>● Convection.</li> <li>● Radiation.</li> <li>● Ways of wasting energy.</li> <li>● Energy saving modifications that can be made to old buildings.</li> <li>● The energy cost of building new buildings.</li> </ul>	<p>Virtual tour through a 1930s secondary school shows how buildings have been designed in the past. Old buildings may have had different methods of heating and different considerations regarding energy efficiency. The section contains three overview pages looking at:</p> <ul style="list-style-type: none"> <li>● school ground</li> <li>● school building</li> <li>● a typical classroom.</li> </ul> <p>Other deeper pages that children can opt to visit explain heat loss through conduction, convection and radiation with diagrams and animations.</p>	<p><b>Recycling in your school</b> Asks students to examine which materials are recycled in their school and where recycling facilities are placed to see if their school is recycling as much as possible.</p> <p><b>Making your school more energy efficient</b> Asks students to find out what kind of windows, insulation and other energy-saving measures are in the school building and looks at ways to improve the building.</p> <p><b>Saving energy in your school</b> Asks students to look at behaviours in the school that waste energy and which behaviours could change.</p> <p><b>Conduction</b> Looks at the method and examples of heat conduction.</p> <p><b>Convection</b> Looks at the method and examples of heat convection.</p> <p><b>Radiation</b> Looks at heat radiation and compares the 3 methods of heat transfer.</p>	<p><b>A tour through the secondary school section of Future Town is probably best used as a plenary for the study of heat transfer - although for able pupils it could be used as in introduction to the topic.</b></p> <p><b>Prior knowledge of particle model of matter would be helpful.</b></p>