

Module Map

Ideas about Science		Module story	Science Explanations	
<i>In other modules</i>	<i>In this module</i>		<i>In this module</i>	<i>In other modules</i>
<p>laS5: Risk in C3 <i>Food matters</i> and P3 <i>Radioactive materials</i>.</p>	<p>Ways of reducing specific risks. Interpret information on risk, presented in different ways.</p>	<p>Sunlight, the atmosphere, and life</p> <p>↓</p>	<p>Sunlight warms the Earth's surface and provides energy for photosynthesis. UV – ionizing radiation, skin cancer. Protection of ozone layer.</p>	<p>Composition of atmosphere in C1 <i>Air quality</i>.</p>
	<p>Ways of reducing specific risks.</p>	<p>Radiation models</p> <p>↓</p>	<p>Source – journey – detector. Photons – packets of EM energy. Non-ionizing radiation.</p>	<p>$c = f\lambda$ in P6 <i>The wave model of radiation</i>.</p>
<p>laS2: Correlation and cause in B2 <i>Keeping healthy</i>.</p>	<p>Risks from new science and technologies. Nothing is completely safe. The precautionary principle. Finding correlations through health studies; factors and outcomes, sample size, and matching. The ALARA principle.</p>	<p>Using radiation</p> <p>↓</p>	<p>Microwave ovens. Making molecules vibrate. Intensity of a beam. Effect of heating living cells.</p>	<p>Use of the EM spectrum in P3 <i>Radioactive materials</i>.</p>
<p>laS2: Correlation and cause in C1 <i>Air quality</i> B2 <i>Keeping healthy</i>.</p>	<p>Correlation and cause. Risk takes account of chance of something occurring and consequences if it does.</p>	<p>Is there a health risk?</p> <p>↓</p>	<p>Transmitting information. Intensity falls with distance. Phone masts and handsets.</p>	
<p>Regulation of scientific applications (laS6.2) in P3 <i>Radioactive materials</i>.</p>	<p>The precautionary principle.</p>	<p>Global warming</p> <p>↓</p>	<p>Greenhouse effect. Greenhouse gases. Carbon cycle, used to explain particular observations.</p>	
		<p>Changing climates?</p>	<p>Climate modelling. Possibly consequences of global warming.</p>	<p>Atmosphere in C1 <i>Air quality</i>. Carbon emissions from power stations in P3 <i>Radioactive materials</i>.</p>