

7 Types of problem used in the Case Studies

Type of problem	Typical examples found in the case studies
<p>Planning and organising Find optimum solution subject to constraints.</p>	<p>Outbreak Mix ingredients to create an antidote., devise a vaccination programme.</p> <p>Product wars Mix ingredients to obtain optimum nutritional value and taste</p> <p>Mystery tours Plan a tour to satisfy time/money/customers</p> <p>Highway link design Propose the optimum location of a by-pass using data used by the Highways agency.</p>
<p>Designing and making Design an artifact or procedure and test it</p>	<p>Product wars Package a drink and test it through market research</p>
<p>Modelling and explaining Create notations and models and use them to explain phenomena or propose solutions</p>	<p>Water availability Create a fair way to distribute water.</p> <p>My music Create a measure of tempo.</p> <p>Keeping the pizza hot Model the cooling of a pizza</p>
<p>Exploring and discovering relationships Find relationships, estimate and predict results and test them.</p>	<p>Crash test Exploring the effect of different variables when crash testing cars.</p> <p>Speed cameras Investigating the effects of different sites for speed cameras.</p> <p>How risky is life? Estimate risks and test them against real data.</p>
<p>Interpreting and estimating Deduce information, from representations of data and present a reasoned argument.</p>	<p>Save a baby kangaroo Devising an appropriate nutrition regime from tables of nutrient data. Present this regime.</p> <p>Reducing road accidents Exploring one town's accident database; use graphs, tables and charts to construct a case. Present the case.</p> <p>You reckon? Make reasoned estimates to test common assertions and facts.</p>
<p>Solving logic puzzles Here the contexts are more 'fantasy' and embedded in computer games</p>	<p>Alien invasion</p> <p>PointZero</p> <p>Explorers</p>