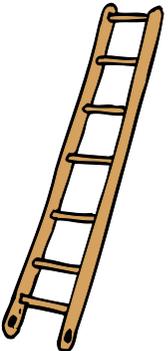
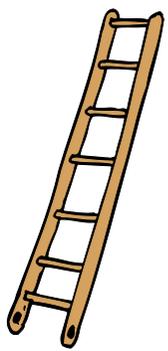




	Using and Applying Mathematics	Shape, Space and Measure	Handling Data
<p>Level 5</p> 	<ul style="list-style-type: none"> • I can identify key information needed to solve a problem. • I can check my answers, deciding if they are reasonable. • I can solve word problems and carry out investigations from a range of contexts. • I can show understanding of situations by explaining them using symbols, words and diagrams. • I can give my own conclusions and explain how I got that conclusion. 	<ul style="list-style-type: none"> • I know a wide range of properties for 2D and 3D shapes and I can show all symmetries in 2D shapes. • I know and use language linked to angles. • I can use angles in a triangle to find missing angles. • I can transform shapes (reflect, rotate and translate) • I can explain position, movement and transformations of shapes. • I can measure and draw angles to the nearest degree. • I can read and interpret a variety of scales from measuring instruments and I can explain what each division represents • I can solve problems that require me to convert units and I can give sensible estimates of measures in relation to everyday situations. • I understand the difference between area and perimeter and I know and can use the formulae for the area of a rectangle. 	<ul style="list-style-type: none"> • I understand and can use averages (range, mean, median and mode) • I can compare two sets of data using range and averages (mean, median and mode) • I can ask questions, plan how to answer that question and collect the data needed. • I understand that we may get different results when an experiment is repeated. • I can interpret bar graphs with grouped data. • I can interpret various graphs and diagrams including pie charts and I can draw conclusions. • I can create and interpret line graphs where intermediate points have meanings. • I can use the language of probability to explain and predict outcomes. • I understand and can use a probability scale from 0 to 1.
<p>Level 4</p> 	<ul style="list-style-type: none"> • I can develop my own strategies for solving problems. • I can use my mathematical understanding in practical contexts. • I can present my information and results in an organised way. • I can look for a solution by trying out my own ideas. 	<ul style="list-style-type: none"> • I understand and use many properties of 2D and 3D shapes. • I can make 3D models by linking given faces or edges. • I can draw common 2D shapes, in different ways, on grids. • I can reflect simple shapes in mirror lines. • I am starting to rotate simple shapes about their centre or a vertex (corner). • I can translate shapes vertically or horizontally. • I can choose and use appropriate units and instruments. • I can interpret numbers on a range of measuring instruments. • I understand the terms perimeter and area. • I can find perimeters of simple shapes and find areas by counting squares. • I can use standard units of time. 	<ul style="list-style-type: none"> • I can collect and record data in frequency tables. • When needed, I can group my data. • I can use Venn and Carroll diagrams to sort and classify information. • I can suggest and use appropriate frequency diagrams (pictograms, bar charts, Venn diagrams) • I can construct simple line graphs. • I understand and use the range and mode to describe sets of data. • I can interpret various frequency diagrams including bar graphs, and pictograms. • I can interpret simple line graphs. • I understand and can use simple probability language including more likely, equally likely, fair, certain.