



# Year 5 Here's One I Made Earlier Knowledge Organiser



Cross Stitch	
<b>cross stitch</b>	Stitches which form a cross shape.
<b>needle</b>	A sharp pointed implement (usually steel).
<b>pattern</b>	A guide or diagram that you follow to make clothes or other things using a needle and thread.
<b>thread</b>	A fine cord of twisted fibres used in sewing and weaving.
Printing	
<b>print</b>	A picture or design printed from a block or plate or copied from a painting by photography.
<b>printing block</b>	A material engraved for printing on paper or fabric
<b>reflection</b>	A geometric transformation resulting in a mirror image.
<b>relief print</b>	Printing from raised images.
<b>triple print</b>	Use three different colours to make a printed design by removing parts of the printing block.

Moving Toys
<p><u>Types of Movement</u></p> <ul style="list-style-type: none"> <li>Linear - </li> <li>Reciprocating - </li> <li>Rotary - </li> <li>Oscillating - </li> <li>Intermittent - </li> <li>Irregular - </li> </ul>
<p><u>Cams</u></p> <p>Cams come in a variety of shapes and sizes. As the cams rotate, the followers reciprocate motion according to the profile of each cam.</p> <p style="text-align: center;"><small>www.explainthatstuff.com</small></p> <p style="text-align: center;"><b>Some common types of cams</b></p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  Round         </div> <div style="text-align: center;">  Eccentric         </div> <div style="text-align: center;">  Oval         </div> <div style="text-align: center;">  Elliptical         </div> </div> <hr style="width: 50%; margin: 10px auto;"/> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  Heart         </div> <div style="text-align: center;">  Hexagonal         </div> <div style="text-align: center;">  Star         </div> <div style="text-align: center;">  Snail         </div> </div>
<p><u>Cam Mechanism</u></p>

Key Vocabulary	
<b>axle</b>	Rod on which one or more wheels can turn.
<b>cam</b>	Specially shaped wheel, or one with a hole off-centre; when it rotates, anything resting on its edge will bob up and down, as in a pull-along toy.
<b>cam follower</b>	Device which rests on and follows the movement of the cam.
<b>clamp</b>	To secure work or equipment to a table.
<b>crank handle</b>	A hand tool consisting of a rotating shaft with parallel handle.
<b>dowel</b>	Wood cut to a cylindrical shape, available in various widths.
<b>drill</b>	Tool for making holes in wood, plastic or metal.
<b>frame</b>	A structure made by joining together a number of pieces of wood, metal, card or plastic.
<b>saw</b>	Cutting tool.
<b>vice</b>	Holding device for components or materials so they may be worked on.
<b>washers</b>	Used to keep wheels in place on the axle.
<b>wheel</b>	Circular frame or disc which rotates about a centre, enabling linear (straight-line) movement from circular motion.