

Leintwardine Endowed CE Primary School Learning Journey Key

'Letting Our Light Shine'

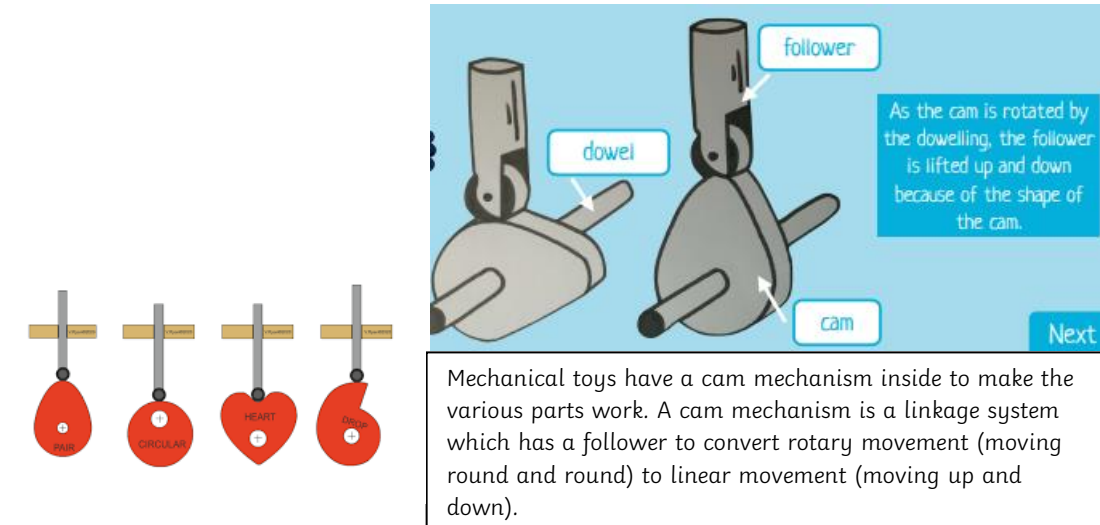




SUBJECT : DT

YEAR : B

TERM : Spring 2

YEAR GROUPS : 3/4

Key Question: Can I make my own toy?

Question	Vocabulary to Use	Information which will help me	Can I....?
<p>What are moving cam mechanisms?</p> <p>What different types of cam mechanisms are there?</p> <p>How can I strengthen structures in moving toys?</p> <p>Can I design a moving toy with a cam mechanism?</p> <p>Can I follow a design criteria to create my moving toys?</p>	<p>movement, mechanism, model, cam, materials, techniques, strengthen, structure, improved, purpose, audience, follower, linear motion, motion, evaluate</p>	 <p>Mechanical toys have a cam mechanism inside to make the various parts work. A cam mechanism is a linkage system which has a follower to convert rotary movement (moving round and round) to linear movement (moving up and down).</p>	<ul style="list-style-type: none"> • recognise the movement of a mechanism within a toy or model? • understand that a cam mechanism will change rotary motion into linear motion? • investigate examples of cam toys and comment on how they work? • describe how cams work using appropriate vocabulary? • explore how different shaped cams affect the movement of the follower? • make suggestions for how different cams could be used for different kinds of toys? • make suggestions for how I could make a sturdy structure for a moving toy? • experiment with a variety of materials, tools and techniques? • identify ways of strengthening a structure? • state the purpose and audience of their design? • design a moving toy with a cam mechanism? • describe how they will create my toy and what materials and tools I will need? • follow a design to create a moving toy? • work safely with a variety of materials and tools?
<p>How do you evaluate a product?</p>		<p>You can double up card or cardboard to make it stronger. </p> <p>You can use a cardboard triangle to reinforce corners. </p> <p>You can create feet at the base of the structure so it is easier to balance. </p> <p>If you are making a wooden frame you can use a piece of wood to create a triangular reinforcement. </p>	<ul style="list-style-type: none"> • identify areas of my toy that could be improved upon? • evaluate a finished product fairly? • suggest ways I could improve my product if I were to make it again? • recognise ways in which I have been successful?