

DT (Mechanisms) Long Term Curriculum Overview

Concept	EYFS	YEAR ONE	YEAR TWO	YEAR THREE	YEAR FOUR	YEAR FIVE	YEAR 6
<p>Content Mechanisms</p>	<p>Learn to programme bee-bots.</p> <p>Use junk equipment and construction kits to build 3D constructions.</p>	<p>Sliders and levers. Wheels and Axles.</p>	<p>Leavers and Axles. Creating mechanisms using systems to create movement.</p>	<p>Select appropriate tools and techniques. Leavers and Linkages. Creating mechanisms using systems to create movement.</p> <p>Alter products after checking to make it better.</p> <p>Try new/different ideas.</p>	<p>Select appropriate tools and techniques.</p> <p>Understand and use mechanical systems such as; Gears, leavers, pulley's, cams and linkages.</p> <p>How do these mechanical systems create movement?</p> <p>Explain alterations to their product. Grow in confidence to try new ideas.</p>	<p>Refine product after testing.</p> <p>Grow in confidence to try new and different ideas.</p> <p>Begin to use cams, pulleys or gears to create movement.</p> <p>Apply understanding of computing to programme, monitor and control their products.</p> <p>How to use computing to monitor changes in the environment and control their products.</p>	<p>How mechanical systems such as cams, pulleys or gears create movement.</p> <p>Use cams, pulleys or gears to create movement.</p> <p>Refine products after testing.</p> <p>Be confident to try new and different ideas.</p> <p>Incorporate hydraulics and pneumatics.</p>
<p><i>Why Here/Why now</i></p>	<p><i>Children will use their own observations to create their own models. Children will begin to be able to design and choose appropriate materials and develop skills in using tool ready for KS1.</i></p>	<p><i>Children will build upon previous learning from EYFS and will begin to use a variety of tools accurately.</i></p>	<p><i>Children will build upon previous learning from KS1. Children will work out how to effectively attach different parts and use cutting tools precisely.</i></p>	<p><i>Moving on from learning in EYFS and KS1 the children will be expected to use the knowledge and skills learned in a more precise way. The children will be able to use most equipment but should now work with more accuracy, considering the intended product which will enable them to move into KS3.</i></p>			

<p>Key Vocabulary</p>	<p>EYFS Build. Make. Glue. Stick.</p>	<p>KS2 Sliders. Leavers. Wheels. Axels. Sliders. Leavers. Wheels. Axels. Move. Systems.</p>	<p>KS2 Leavers. Linkages. Mechanism. System. Ideas. Create. Motor Gears. Pully's Testing. Programme Computing. Movement. Monitor. Change. Hydraulics. Pneumatics. Cams.</p>
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