



# Design Technology

Rosedale  
Primary School

# Curriculum Intent

Rosedale's Design Technology curriculum aims to equip pupils so that they will:



develop the **creative, technical** and **practical expertise** needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world



build and apply a repertoire of knowledge, understanding and skills in order to **design and make high-quality prototypes and products** for a wide range of users



**critique, evaluate** and test their **ideas** and **products** and the work of others



understand and apply the **principles of nutrition** and **learn how to cook**.

# Long-Term Overview

	Autumn	Spring		Summer	
Year 1	<b>Mechanisms</b> <i>Slides and levers</i> <i>How can you make a picture move?</i>	<b>Textiles</b> <i>Joining techniques</i> <i>How can two squares of fabric keep you warm?</i>		<b>Structures</b> <i>Freestanding structures</i> <i>How can you stop a tower from toppling over?</i>	<b>Food &amp; Nutrition</b> <i>Exploring food sense</i> <i>How does food affect your senses?</i>
Year 2	<b>Mechanisms</b> <i>Alex and wheels</i> <i>Are bigger wheels always better?</i>	<b>Textiles</b> <i>Explore shape using a template</i> <i>How can you repurpose an item of clothing?</i>		<b>Structures</b> <i>Developing strength in a structure</i> <i>How strong is a piece of paper?</i>	<b>Food &amp; Nutrition</b> <i>Nutrients and the body</i> <i>What does healthy mean?</i>
Year 3	<b>Textiles</b> <i>Stiffening and strengthening fabric</i> <i>How can you make a box out of cloth?</i>	<b>Structures</b> <i>Spanning gaps</i> <i>What makes a bridge strong?</i>	<b>Systems</b> <i>How things are powered</i> <i>How are things powered?</i>	<b>Mechanisms</b> <i>Levers and linkages – mechanical advantages</i> <i>How can you do a lot of work with little effort?</i>	<b>Food &amp; Nutrition</b> <i>Food as medicine</i> <i>How does food affect your body and mind?</i>
Year 4	<b>Mechanisms</b> <i>Hinges</i> <i>How many ways are there to open a door?</i>	<b>Electrical Systems</b> <i>Switches and circuits</i> <i>How useful are switches?</i>		<b>Textiles</b> <i>Fixings and fastenings</i> <i>How do you keep a towel from slipping off a hook?</i>	<b>Food &amp; Nutrition</b> <i>Ultra-processed food</i> <i>What's really in your food?</i>
Year 5	<b>Textiles</b>	<b>Structures</b> <i>Developing structures that are fit for purpose</i> <i>How are frames strengthened, reinforced and made rigid?</i>	<b>Systems</b> <i>Using technology to design and control</i> <i>How can we keep ourselves safe on the road?</i>	<b>Mechanisms</b> <i>Pulleys and gears – transferring rotational forces</i> <i>How can you lift a car onto a roof?</i>	<b>Food &amp; Nutrition</b> <i>Food choices</i> <i>Why are our diets so different?</i>
Year 6	<b>Mechanisms</b> <i>How do pulleys and gears let you see the world?</i> <i>Pulleys and gears – rotary and linear movements</i>	<b>Electrical Systems</b> <i>Complex switches and circuits</i> <i>Can switches perform more than one function?</i>		<b>Textiles</b> <i>Sustainable materials</i> <i>How can you reduce, recycle, repurpose?</i>	<b>Food &amp; Nutrition</b> <i>Food and mood</i> <i>Does food affect the way you feel?</i>