



Petersfield Infant School **Design and Technology** Long term map 2022 – 23

	<b>Autumn 1</b>	<b>Autumn 2</b>	<b>Spring 1</b>	<b>Spring 2</b>	<b>Summer 1</b>	<b>Summer 2</b>
<b>Year R</b>	<ul style="list-style-type: none"> <li>• Make imaginative and complex 'small worlds' with blocks and construction kits, such as a city with different buildings and a park</li> <li>• Explore different materials freely, to develop their ideas about how to use them and what to make</li> <li>• Develop their own ideas and then decide which materials to use to express them. Join different materials and explore different textures</li> <li>• Use one-handed tools and equipment, for example, making snips in paper with scissors</li> </ul>		<ul style="list-style-type: none"> <li>• Return to and build on their previous learning, refining ideas and developing their ability to represent them</li> <li>• Create collaboratively, sharing ideas, resources and skills</li> <li>• Develop their small motor skills so that they can use a range of tools competently, safely and confidently. Suggested tools: pencils for drawing and writing, paintbrushes, scissors, knives, forks and spoons</li> </ul>		<ul style="list-style-type: none"> <li>• Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function</li> <li>• Share their creations, explaining the process they have used.</li> <li>• Use a range of small tools, including scissors, paint brushes and cutlery</li> </ul>	

	<b>Autumn 2</b>	<b>Spring 2</b>	<b>Summer 2</b>
<b>Year 1</b>	<p><b>Structures: Freestanding</b></p> <p>Designing playground equipment</p> <p>Design Brief:</p> <p>Can you design, make and evaluate a <u>prototype piece of playground equipment</u> (product) for a <u>school</u> (user) to <u>improve their play area</u> (purpose)?</p>	<p><b>Mechanisms: Sliders and Levers</b></p> <p>Designing a class topic book</p> <p>Design Brief:</p> <p>Can you design, make and evaluate a <u>class topic book</u> (product) for <u>year 1 children</u> (user) to <u>teach them about the topic</u> (purpose)?</p>	<p><b>Food: Preparing Fruit</b></p> <p>Designing a summer fruit salad</p> <p>Design Brief:</p> <p>Can you design, make and evaluate a <u>summer fruit salad</u> (product) for <u>customers</u> (user) to <u>buy in the local supermarket</u> (purpose)?</p>



<b>Year 2</b>	<p style="text-align: center;"><b>Mechansims: Wheels and Axles</b></p> <p>Designing a vehicle for the Petersfield Infant School Downhill Dash</p> <p style="text-align: center;">Design Brief:</p> <p>Can you design, make and evaluate a <u>racing car</u> (product) for <u>yourself</u> (user) to <u>compete in the downhill dash</u> (purpose)?</p>	<p style="text-align: center;"><b>Food: Healthy and Varied Diet</b></p> <p>Designing a balanced picnic snack</p> <p style="text-align: center;">Design Brief:</p> <p>Can you design, make and evaluate a <u>balanced picnic snack</u>(product) for <u>yourself</u> (user) for the <u>Year 2 Big Picnic</u> (purpose)?</p>	<p style="text-align: center;"><b>Textiles: Templates and Joining Techniques</b></p> <p>Designing a 'Colour Monster' toy</p> <p style="text-align: center;">Design Brief:</p> <p>Can you design, make and evaluate a <u>Colour Monster Toy</u> (product) for <u>yourself</u> (user) to <u>take with you as you move on to Junior School</u> (purpose)?</p>
---------------	--	---	--