

## Design and Technology at Nova Primary Academy

	<b>EYFS</b> <i>Expressive Arts and Design</i>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>	<b>Year 6</b>
<b>Autumn</b>	<p><b>Me and My World</b> Creating a self-portrait using paint, pencils or crayons.</p> <p><b>My Heroes</b> Creating a superhero vegetable using printing and collage materials.</p>	<p><b>Cooking and Nutrition: Fruit Salads</b> Combing tastes and textures to make a fruit salad. Using basic cutting tools to cut different fruits.</p>	<p><b>Textiles: Finger Puppets</b> Making a finger puppet by marking out, cutting and joining fabric.</p>	<p><b>Textiles: Coin Pouches</b> Investigating ways of reinforcing fabric with different stitches. Creating and using patterns.</p>	<p><b>Structures: Photo Frame</b> Understanding ways in which structures can be made stable and how to stiffen materials. Applying these skills to make a photo frame.</p>	<p><b>Cooking and Nutrition: Making Soup</b> Applying safe food preparation techniques to make a healthy soup. .</p>	<p><b>Mechanisms: Cams, Wheels and Axels</b> Understanding how mechanisms produce movement. Cut, shape and join components to make a moving toy.</p>
<b>Spring</b>	<p><b>Castles, Knights and Dragons</b> Creating dragon pictures with wax rubbing over textured surfaces.</p> <p><b>Spring in my Step</b> Explore mixing colours to paint a butterfly.</p>	<p><b>Mechanisms: Pushes, Pulls and Levers</b> Understanding simple mechanisms to create movement and using these to make a book about transport that has moving parts.</p>	<p><b>Mechanisms: Wheels and Axels</b> Understand how wheels and axels work. To use wheels, axels and joining techniques to make a moving fire engine.</p>	<p><b>Cooking and Nutrition: Bread</b> Identifying, selecting and using food tools and techniques safely. Understanding food hygiene.</p>	<p><b>Mechanisms: Pneumatics</b> Considering different types of pneumatic structures and know about simple mechanisms such as levers and linkages. Applying these skills to make a moving creature.</p>	<p><b>Structures: Musical Instruments</b> Investigating instruments from different times and cultures. Understanding how shape and materials used can alter sound.</p>	<p><b>Cooking and Nutrition: Meal on a Budget</b> Applying knowledge of healthy diets, seasonal foods and food preparation techniques to cook a meal with a given budget.</p>
<b>Summer</b>	<p><b>Science Detectives</b> Choosing from a variety of craft resources to create their own model skeleton.</p>	<p><b>Structures: Freestanding Structures</b> Designing and making baby bear's chair. Learning about prototypes and how to make structures more stable.</p>	<p><b>Cooking and Nutrition: Healthy Sandwiches</b> Understanding food preparation techniques and how to combine appearance, flavour and texture. Understand the balanced plate model to make a healthy sandwich.</p>	<p><b>Mechanisms: Levers and Linkages</b> Understanding how a range of linkage type mechanisms work. Assembling a range of mechanisms to make a puppet theatre.</p>	<p><b>Electrical and Computer Control</b> Using circuit boards to input algorithms and programme an electrical circuit to make a moving model.</p> <p><b>Cooking and Nutrition: Pizzas</b> Identifying, selecting and using food tools and cooking techniques safely.</p>	<p><b>Textiles: Ipad Cases</b> Designing for a range of needs. Using patterns, templates and detailed working drawings to create an Ipad case from fabric.</p>	<p><b>Structures and Electrical circuits: Lighthouse</b> Investigating and using techniques to join and strengthen a wooden structure. Design and make a working lighthouse.</p>