



St Leo's and Southmead Catholic Nursery and Primary School

DT Progression of Knowledge for Autumn and Spring 2022- 2023

Reception ELG	Expressive Arts and Design ELG: Creating with Materials Children at the expected level of development will: - Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function; - Share their creations, explaining the process they have used; - Make use of props and materials when role playing characters in narratives and stories.					
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Autumn	<p>Pop up Christmas cards Mechanisms Sliders and Levers</p> <p>Simple levers and sliding mechanisms can be used to create movement.</p> <p>Lever are used in products eg scissors, balances and moving books.</p> <p>A lever has a pivot point.</p> <p>A slider moves backwards and forwards in a straight line.</p> <p>The product should have a simple design criteria.</p>	<p>Puppets Textiles Templates and Joining</p> <p>Puppets are figures or dolls that can be moved by a person.</p> <p>Puppets are made up of different parts. Puppets can be different in size, shape and the material used to create the puppet.</p> <p>The appearance of a puppet reflects its intended purpose.</p> <p>Sewing can be used to join two or more materials together.</p>	<p>Cushions Textiles 2D to 3D product</p> <p>Products are designed for different purposes and different users.</p> <p>Fabrics have different properties</p> <p>Some joining techniques are stronger/weaker than others.</p> <p>Fabrics have different properties</p> <p>Some joining techniques are stronger/weaker than others</p>	<p>Biscuit Boxes Structures Shell structures</p> <p>Commercially made packaging are constructed from nets.</p> <p>Commercially produce packaging is visually lively, accurately made and appropriate for its purpose.</p> <p>Commercial packaging structures have use and purpose to help market the product for sale.</p>	<p>Cams Mechanical Systems Cams</p> <p>A cam mechanism is made up of three components: a cam, slider and follower.</p> <p>The mechanism causes components to move. Cams can be made from metal, plastic or wood.</p> <p>A cam mechanism is made up of a cam, follower, axle, slider and handle.</p> <p>Cams come in different shapes which create different motions</p>	<p>Tudors Cakes / Soup Food Celebrating culture and seasonality</p> <p>Tudor food was seen as a sign of status and wealth.</p> <p>Most poor people lived on a diet of bread, butter, cheese and eggs.</p> <p>Poor people would often eat a food called pottage.</p> <p>Pottage is a vegetable broth thickened with oats</p> <p>Tudor ingredients were fresh and grown food, as fridges did not exist.</p>



St Leo's and Southmead Catholic Nursery and Primary School

DT Progression of Knowledge for Autumn and Spring 2022- 2023

		<p>A template can be used as a pattern for cutting out a design.</p> <p>Sewing can be used to join two or more materials together.</p> <p>A template can be used as a pattern for cutting out a design.</p>	<p>Fabric can be joined in temporary and permanent ways</p> <p>Products can be designed using textiles for a specific purpose</p> <p>We can appreciate the aesthetic qualities of a design.</p>		<p>Cam mechanisms create linear and rotary movements</p> <p>A cam mechanism is made up of a cam, follower, axle, slider and handle.</p> <p>Cams come in different shapes which create different motions.</p> <p>Cam mechanisms create linear and rotary movements.</p>	<p>Only certain food was available during Tudor times.</p>
Spring	<p>Fruit Kebabs <u>Food</u> <u>Fruit and Vegetables</u></p> <p>Puppets are figures or dolls that can be moved by a person.</p> <p>Puppets are made up of different parts.</p> <p>Puppets can be different in size, shape</p>	<p>Moon Buggy <u>Mechanisms</u> <u>Wheels and axles</u></p> <p>There are many different types of vehicles.</p> <p>Vehicles can be used for different purposes.</p>	<p>Toasties <u>Food</u> <u>Healthy and varied diets.</u></p> <p>Food belongs to different food groups.</p> <p>Ingredients used in products can be grown and harvested, reared, caught and processed around the world.</p>	<p>Torches and Lamps <u>Electrical systems</u> <u>Simple programming and control.</u></p> <p>Torches have different features and are made of different components.</p> <p>Electrical switches work in different ways e.g push-to-make, push-to-break, toggle switch.</p>	<p>Bird Hides <u>Structures</u> <u>Frame structures</u></p> <p>A bird hide is a shelter, often camouflaged, that is used to observe wildlife, especially birds, at close quarters.</p>	<p>Soft toy <u>Textiles</u> <u>Using CAD</u></p> <p>Renate Miller is a famous artist who made therapeutic soft toys.</p> <p>Soft toys can be functional and decorative.</p>



St Leo's and Southmead Catholic Nursery and Primary School

DT Progression of Knowledge for Autumn and Spring 2022- 2023

	<p>and the material used to create the puppet.</p> <p>The appearance of a puppet reflects its intended purpose.</p> <p>Sewing can be used to join two or more materials together.</p> <p>A template can be used as a pattern for cutting out a design.</p>	<p>A vehicle is made up of different parts. These include a chassis, wheels, axels and steering wheel.</p> <p>Designs can be created after exploring existing vehicles and using a design criteria.</p> <p>To measure, draw and cut materials needed to make different parts.</p> <p>Materials can be joined together using different tools and methods to create a vehicles.</p>	<p>Food can be prepared in different ways including grating, peeling, chopping, slicing, mixing, spreading, and grilling.</p> <p>Food needs to be prepared safely.</p> <p>Food can be selected to maintain a healthy and varied diet.</p> <p>Food can be cooked in different ways.</p>	<p>Simple circuits are made of different components.</p> <p>Faults can occur and be fixed in simple circuits.</p> <p>Torches can be designed for different purposes.</p> <p>Different techniques can be used to strengthen structures.</p>	<p>Bird hides can be made of different materials.</p> <p>Bird hides need to be water resistant, strong and camouflaged.</p> <p>Materials can be joined by different methods.</p> <p>The strength of a structure can be tested in different ways.</p> <p>Bird hide designs should meet the needs of the user.</p>	<p>Jute is a material used by Renate Muller.</p> <p>Computer aided design can be used to create paper patterns for 3D designs.</p> <p>Manufacturers use surveys, questionnaires and interviews to evaluate the most popular designs.</p> <p>Detailed plans can communicate designs, methods of strengthening, fabrics and stitching in manufacturing products.</p>
Summer	<p>Playgrounds Structures <u>Free standing</u></p>	<p>What veg can you put on your sandwiches? Food <u>Fruit and Vegetables</u></p>	<p>Moving Monsters <u>Mechanical Systems</u> <u>Pneumatics</u></p>	<p>Pizza Food <u>Healthy and varied diets.</u></p>	<p>Anglo Saxon Bread Food <u>Celebrating culture and seasonality</u></p>	<p>Lights Electrical systems Monitoring and control</p>