Landscore Primary School

DT Key Concepts Progression Map

	Cooking	Textiles	Construction	Design and Evaluate
EYFS	• Explore, use and refine a variety of artistic effects to express their ideas and feelings (Good to be me!) - Collage • Explore, use and refine a variety of artistic effects to express their ideas and feelings (Let's Celebrate) - Christmas • Create collaboratively sharing ideas, resources and skills (Spring into Summer) - Model making • Learn to cook Scones (Spring into Summer) - In small groups with support children will be able follow a recipe to make scones. The children will start to think about basic hygiene and kitchen safety.			
KS1	**A – Design and make a snack (Habitats)** **B – Smoothie (Healthy Me)** • Follow safe procedures for food safety and hygiene - Handwashing, cleaning surfaces, • With support be able to use the bridge and claw methods of cutting safely. • Use basic cooking equipment (Chopping boards, knives, mixing bowls). • Follow simple recipes as part of a group.	**A – Sewing (Lets grow)** **B – Upcycle socks to puppets (Climate Heroes)** • Use hand tools safely and appropriately. - Scissors and needles • Assemble, join and combine materials in a range of ways in order to make a product - glue, sew, cello tape, staples and running stiches.	**A – Design and Make a building for a purpose – Tudor houses (Great fire of)** **B – Moving vehicle (Dare to Dream)** • Select tools and materials to achieve a specific aim. - Children will be able to select the materials and tools they need from a range of resources to make their product. • Measure, cut and score a range of materials with some accuracy. • Use a range of hand tools safely and appropriately. - Scissors, saws	• To be able to understand design criteria and evaluate against the purpose. - Children are able to clearly state the purpose of their products. • As part of a group the children are able to research and evaluate existing products against criteria. • Independently, Children are able to identify areas of improvement in their own and others designs and products.
Lower KS2	**A – Pizza (Ancient Civilisations - The Romans)** **B – Design and make a pasta sauce (Climate Heroes)** • Demonstrate hygienic food preparation and storage. - Children will know how to prepare food safely. - Children will know how to store food safely (temperature and cross contamination). • Follow a basic recipe using measurements. - Children will be able to follow a basic recipe including measuring out ingredients. • Create a basic recipe using an original design - including making measurements.	**A – Weaving (Crediton in WW1)** **B – Design and Make Cushion (Colour and Light)** • Measure, tape or pin, cut and join fabric with accuracy. - running stitch and back stitch • Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques. • Join and combine materials and components accurately in temporary and permanent ways. - Children will be able to show different ways of combining materials (glue, cello tape, staples, running stiches and back stiches.)	**A – Moving toys (Amazing Authors)** **B – Design and Make Nightlights (Climate Heroes)** • Select tools and techniques for making their product working safely and accurately. - Children will be able to select the materials and tools they need from a range of resources and explain why they are suitable. • Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques. - Children will be able to mark a range of materials clearly using a ruler with some accuracy. - Children will be able to cut and shape a range of materials including wood, plastic, materials and paper with some accuracy. - Children will be confident in using a range of materials to cut and shape including scissors and hand saws.	• Create design criteria based on a purpose, where appropriate carrying out surveys. • Evaluate design and making process. - Children will be able to identify areas for development and success. • Evaluate products against a specific purpose. - Children will be able to evaluate their own as well as existing products against a specific purpose.

	- Children will adapt a basic recipe to create their own recipes. These will include measurements. • Safely use kitchen knives - Children will be able to independently use the claw and bridge methods of cutting. • Safely use hob/oven. - With support children will know how to use both a hob and an oven.		**<u>Technical knowledge</u>** • Apply their understanding of how to strengthen, stiffen and reinforce more complex structures • Understand and use mechanical systems in their products [E.g., gears, pulleys, cams, levers and linkages] • Understand and use electrical systems in their products [E.g., series circuits incorporating switches, bulbs, buzzers and motors] • Apply their understanding of computing to program, monitor and control their products.	
Upper KS2	**A – Design and make recipe for school lunch (Farming)** **B – Recipe development (Dare to Dream)**	**A – Design and Make a Toy (sewing) (Global Comparisons)** **B – Upcycle clothing to a bag (Climate Heroes)**	**A – Making a Photo Frame (Aztecs)** **B – Moving solar system (Space)**	• Develop design criteria based on a brief and consumer information, including surveys and wider consumer data. • Critically evaluate existing products to inform their own designs and process. • Critically evaluate own products and suggest improvements and strengths of both the product and process.
	• Weigh and measure accurately using a range of kitchen equipment - Weighing scales, measuring spoons & measuring jugs. • Follow a recipe independently. • Create own recipes. - Using inspiration from original recipes children will be able to create their own recipes independently. • Safely use a range of kitchen equipment including knives, graters (independently) and a hob. - Children will be confident in choosing the correct equipment to make their product. - Children will be able to independently use both the bridge and claw and choose when is best to use each.	• Pin, sew and stitch materials together to create a product. - Children will know how to use the following stiches; running stitch, back stitch and blanket stitch. • Make modifications in process. • Select appropriate tools, materials, components and techniques to meet a planned purpose.	• To accurately measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques. - Scissors and saws. • Select appropriate tools, materials, components and techniques to meet planned purpose. - Children will be able to select their own resources and techniques used to meet their purpose. • Assemble components to make working models. - Including wood, plastic and fabrics. • Use a range of tools safely and accurately. - Children will be able to independently demonstrate how to use a variety of tools safely and accurately. **<u>Technical knowledge</u>** • Apply their understanding of how to strengthen, stiffen and reinforce more complex structures • Understand and use mechanical systems in their products [E.g., gears, pulleys, cams, levers and linkages] • Understand and use electrical systems in their products [E.g., series circuits incorporating switches, bulbs, buzzers and motors] • Apply their understanding of computing to program, monitor and control their products.	