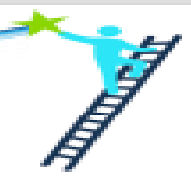


Design & Technology Learning Ladders



<p>Year 1</p> <p><u>Progression of Skills and Understanding:</u> Designing</p>	<ul style="list-style-type: none"> Design purposeful, functional and appealing products for themselves and other users based on design criteria. Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and where appropriate, information and communication technology. Design useful, practical and appealing products based on clear design criteria. Generate and communicate ideas through words, images and labels. Use information and communication technology as part of design development where appropriate.
<p><u>Progression of Skills and Understanding:</u> Making and Technological Knowledge</p>	<ul style="list-style-type: none"> Select from, and use, a range of tools and equipment to perform practical tasks for examples cutting, shaping, joining and finishing. Select from, and use, a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics. Technical knowledge Build structures, exploring how they can be made stronger, stiffer and more stable. Explore and use mechanisms for example levers, sliders, wheels and axles, in their products.
<p><u>Progression of Skills and Understanding:</u> Making and Technological Knowledge Materials and Components</p>	<ul style="list-style-type: none"> Fold, roll, tear and cut paper and card. Cut along lines with scissors safely. Use other tools such as hole-punch, stapler and different bladed scissors. Explore techniques for joining materials, e.g. gluing and taping. Explore how they can build structures and make them stronger, stiffer and more stable.
<p><u>Progression of Skills and Understanding:</u> Making and Technological Knowledge</p>	<ul style="list-style-type: none"> Cut strip wood and/or dowel with support using a hacksaw. Use construction kits to create models. Join different materials in appropriate ways for examples using glue, sticking tape or staples. Mark out materials using a template ready for cutting.
<p><u>Construction Materials:</u></p>	<ul style="list-style-type: none"> Choose, with support, tools and equipment to perform practical tasks such as cutting, shaping, joining and finishing. Recognise the characteristics of a wide selection of materials and begin to choose them to meet the needs of a product.
<p><u>Progression of Skills and Understanding:</u> Making and Technological Knowledge Textiles</p>	<ul style="list-style-type: none"> Join textiles in different ways, e.g. by using running-stitch, glue, staples and/or tape. Begin to embellish fabrics using a range of components, e.g. buttons, strips of other fabrics, beads, sequins and ribbons. Begin to shape materials using shaping techniques, e.g. cutting and using templates. Describe materials' characteristics by looking, feeling and manipulating. Begin to choose materials and components according to their characteristics.
<p><u>Progression of Skills and Understanding:</u> Evaluating</p>	<ul style="list-style-type: none"> Explore and evaluate a range of existing products. Evaluate their ideas and products against design criteria. Evaluate what they like and do not like about the products made and begin to explain why.
<p><u>Progression of Skills and Understanding:</u> Cooking and Nutrition</p>	<ul style="list-style-type: none"> Use the basic principles of a healthy and varied diet to prepare dishes. Understand where food comes from. Group food products according to similarities, e.g. fruit. Be introduced to the different food groups. Sort foods according to those which are most healthy and can be eaten frequently and those which should be eaten in small amounts and less regularly. Cut ingredients safely. Mix, stir, pour and roll out ingredients. Understand where familiar foods directly originate from, e.g. apples, milk and meat.