

Design & Technology Progression Grid Class 3-4 cycle 2

<p>Autumn – Mechanical posters</p> <p>Objectives-</p> <p>To understand and use mechanical systems in their products which use levers and linkages</p> <p>To apply understanding of how to strengthen, stiffen and reinforce more complex structures</p>	<p>Spring – Edible garden</p> <p>Objectives</p> <p>To investigate and analyse a range of existing products.</p> <p>To prepare and make a healthy and tasty meal using tomatoes as my main ingredient.</p> <p>To use kitchen tools correctly to prepare and make a tasty and nutritious drink.</p>	<p>Summer- Drawbridge pulley.</p> <p>Objectives-</p> <p>To design, make and evaluate a drawbridge.</p> <p>To understand and use a mechanical system of a pulley in a product.</p> <p>To select from and use a wider range of tools and equipment to perform practical tasks.</p>
<p>Minimum learning is highlighted.</p>		<p>Minimum vocabulary is in bold.</p>
<p>To name the parts and functions of a lever and linkage mechanical system.</p> <p>To know a lever is a stiff bar which moves around a pivot.</p> <p>To know a linkage is part of the mechanism used to join one or more levers to produce the type of movement required.</p> <p>To create an annotated sketch of an idea.</p> <p>To generate, develop, model and communicate ideas through discussion annotated sketches and prototypes in the context of using the moving poster.</p> <p>To carefully select materials and use the correct tools and equipment accurately.</p> <p>To discuss rotary motion, linear motion and oscillating motion</p>	<p>To name some herbs e.g. thyme and mint, and know how to grow them.</p> <p>To know what makes a healthy diet and varied and can cook a healthy balanced meal.</p> <p>To where when and how strawberries are grown in the UK</p> <p>To know about fruit and veg being 'in season'</p> <p>To know that nutrition is often referred to when talking about healthy diet</p> <p>To use kitchen tools correctly to prepare and make a tasty and nutritious drink.</p> <p>To correctly plant a tomato seed.</p> <p>To prepare ingredients safely and hygienically using appropriate cooking utensils.</p>	<p>To know how a drawbridge works.</p> <p>To know why drawbridges were made.</p> <p>To know which materials and equipment to select in order to make a product and to know how to make decisions regarding joins.</p> <p>To create my own design criteria</p> <p>To sketch a design of a drawbridge with a pulley system.</p> <p>To make a drawbridge using a variety of materials.</p>