

Design & Technology Progression Grid Class 4-5 cycle 1

<p><b>Autumn – Juggling balls</b> Objectives- To investigate and evaluate a range of existing products in the context of a product analysis of existing juggling balls. To generate, develop, model and communicate ideas through discussion and annotated sketches in the context of designing a circus themed juggling ball. To select from and use a range of tools and equipment to perform practical tasks accurately in the context of creating a tie-dye background for a juggling ball.</p>	<p><b>Spring – super seasonal cooking</b> Objectives To understand the principles of nutrition and learn how to cook To instil a love of cooking in pupils To be able to feed oneself and others affordably and well To understand and apply the principles of a healthy and varied diet To prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques To understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed</p>	<p><b>Summer- Automato animals</b> Objectives- To build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users To understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages] To use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups To generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design</p>
<p>Minimum learning is highlighted</p>		<p>Minimum vocabulary is in bold</p>
<p>To investigate and evaluate juggling balls. To follow a design criteria to help me create and communicate my ideas. <b>I know why function and design and decoration are important.</b> I know how to design to <b>appeal</b> to an audience I can name 4 different <b>fabrics</b> which would be appropriate for juggling balls (eg cotton, paper, <b>felt</b>, plastic, polyester) I can investigate a range of products I can develop a design based on criteria I can decorate fabric I can create a hem and join fabrics. <b>I know how to explain how to join fabrics</b></p>	<p>To know what the 4 seasons are <b>To know what the seasonal calendar is in terms of food</b> To know when cherries, pumpkins, parsnips, sprouts, blackberries and peas are in season. To know the difference between a <b>fruit</b> and a <b>vegetable</b> To know how to use the seasonal chart/calendar <b>To know some foods which are grown</b> <b>To know some foods which are reared</b> <b>To know some foods which are caught</b> <b>To know some foods which are processed</b> I can explain food hygiene</p>	<p><i>To know <b>the rotation</b> part of the mechanism is a <b>Cam</b> and the <b>follower is the reciprocating motion</b> (back and forth).</i> <b>To know what a cam and follower are</b> To make/assemble a cam and follower To think about replicating animal movement To cut materials accurately and safely by selecting appropriate tools To be able to evaluate their product</p>