



<p>Spring 1</p> <p><u>Levers and Linkages</u></p>	<p>Summer 2</p> <p><u>Making bread</u></p>
<ul style="list-style-type: none">When designing and making, pupils should be taught to: Designuse research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groupsgenerate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided designMakeselect from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accuratelyselect from and use a wider range of materials and components, including construction materials, according to their functional properties and aesthetic qualitiesEvaluateinvestigate and analyse a range of existing productsevaluate their ideas and products against their own design criteria and consider the views of others to improve their workunderstand how key events and individuals in design and technology have helped shape the worldTechnical knowledgeapply their understanding of how to strengthen, stiffen and reinforce more complex structuresunderstand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]	<ul style="list-style-type: none">When designing and making, pupils should be taught to: Designuse research and develop design criteria to inform the design of innovative, appealing products that are fit for purpose, aimed at particular individuals or groupsgenerate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided designMakeselect from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accuratelyselect from and use a wider range ingredients, according to their functional properties and aesthetic qualitiesEvaluateinvestigate and analyse a range of existing productsevaluate their ideas and products against their own design criteria and consider the views of others to improve their workunderstand how key events and individuals in design and technology have helped shape the worldCooking and nutritionPupils should be taught to:understand and apply the principles of a healthy and varied dietprepare and cook a variety of predominantly savoury dishes using a range of cooking techniquesUnderstand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.

<ol style="list-style-type: none"> 1. To research existing how key individuals helped shape the world and investigate existing products (Charles Larson) levers and linkages ks2 puppet - Bing images (vocab: lever, linkage, mechanism, pivot) 2. To understand the mechanical systems in our product and create design criteria 3. To develop ideas through annotated sketches and exploded diagrams 4. To understand how to strengthen and reinforce our structures 5. To select a range of tools and materials according to their functional properties (make product) (vocab: functional) 6. To evaluate my own and others work against our own design criteria 	<ol style="list-style-type: none"> 1. To understand seasonality and where a variety of ingredients are grown (vocab: seasonality) 2. To understand the principals of a healthy and varied diet (vocab: varied diet) 3. To evaluate existing products and make our own design criteria (discuss Thomas Warburton) 4. To design an appealing product based on design criteria (vocab: appealing, savoury) 5. To select a range of tools and ingredients to make our product (vocab: knead) 6. To evaluate my own and others products against my own design criteria (use evaluation form on server)
Linkages and Levers - end points	Making bread - end points
Designer/person of interest: Charles Larson was an inventor who designed the scissor lift mechanism in 1960. Skills: To be able to make a functional scissor mechanism. Vocab: mechanism, functional, lever, linkages, pivot	Designer/person of interest: Thomas Warburton was an English business man who founded a bakery which is now the biggest in the United Kingdom. Skills: To be able to mix ingredients, follow a recipe and knead bread. Vocab: varied diet, seasonality, appealing, savoury, knead
Mechanism: the parts working together in a machine. Functional: practical and useful Lever: a bar resting on a pivot Linkage: a system of links Pivot: the central point on which a mechanism turns	Varied diet: a wide range of food groups being eaten. Seasonality: varying foods depending on the season Appealing: attractive or interesting. Savoury: salty or spicy rather than sweet in taste. Knead: to press firmly