

KS1:

- **Design**
- design purposeful, functional, 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
- **Make**
- select from and use a range of tools and equipment to perform practical tasks [for example, 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
- **Evaluate**
- explore and evaluate a range of existing products
- evaluate their ideas and products against design criteria
- **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.
- **Food Technology**
- use the basic principles of a healthy and varied diet to prepare dishes
- Understand where food comes from.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
1	Food Tec Fruit Salad - (Looking at healthy eating relating to Science)		Sewing Animal Puppets - (Looking at different materials in Science)		Construction Vehicles - (Looking at different vehicles in Geography)	

2	Construction Elma the elephant models - (Looking at recycling in science)		Sewing Bags and Cushions - (Looking at different stories in English)		Food Tec Pancakes - (Looking at different food from around the world in Geography)	

KS2:

Design

- 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
- generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design

Make

- select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately
- select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities

Evaluate

- investigate and analyse a range of existing products
- evaluate their ideas and products against their own design criteria and consider the views of others to improve their work
- understand how key events and individuals in design and technology have helped shape the world

Technical knowledge

- apply their understanding of how to strengthen, stiffen and reinforce more complex structures

- understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]
- understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]
- apply their understanding of computing to program, monitor and control their products.

Food Technology

- understand and apply the principles of a healthy and varied diet
- prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques
- understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.

3	Sewing Cross stitching and embroidery - (Looking at how only girls in the past were taught how to sew)			Food Tec Soup and bread - (Looking at healthy eating in science)		Construction Photo frames - (Reflection related with PSHE)
4	Construction Greek temples - (Related to History and structure)	Food Tec - Flatbread and humus (Looking at Greek food in History)	Sewing Togas - (Related to history and the Roman empire)		Construction - sawing and wood work. (Related to geography)	

5	Construction Shaduf (select own tools and techniques for a desired outcome using wood)		Sewing Brooches (select tools and techniques for a desired outcome)		Food Tec - French cooking, hygiene in order to make a 3 course meal (linked to Geography topic 'Meet The Junots')	
6	Food Tec - Ration recipes (Relating to World War 2 in History)	Construction - Anderson Shelters (Relating to World War 2 in History)			Construction - Moving Vehicles (Related to Geography)	Sewing Children to choose something to make using specific sewing skills gained throughout the school.