





Our Design and Technology curriculum aims to give young people the skills and abilities to engage with the designed, created world. It gives them the ability to harness and use current technology.

We cover the aspects from the National Curriculum as a whole school, ensuring clear progression and skills coverage. Staff are thus empowered through team work and support.



Sept 2021

### Big Ideas

- **Structures** - a building or other object constructed from several parts. **2020-2021**
- **Mechanisms** - a system of parts working together in a machine; a piece of machinery. **2021-2022**
- **Textiles** – the study of textiles and techniques used in textiles
- **Food** - the study of food production, diet, and cookery.

### Content and Sequencing






- 1 focus half termly unit a year (developed as part of the COVID recovery plan)
- Content of the National curriculum and cross curricular links

**2020-2021 Structures** – FS Y1 Y2 free standing structures LKS2 Shell Structures Y5 Y6 Frame Structures



**PRE COVID PLAN**  
**Textiles** – Y2 Spring 2 templates and joining techniques Y3 Autumn 2 2D shape to 3D textile eg pencil case/purse Y3 Autumn 2 textiles 2D design to 3D product Y4 Summer 2 2D shapes to 3D products Y5 Autumn 2 combining different fabric shapes  
**Food** – Y1 Spring 1 Preparing Fruit and Vegetables eg fruit salads Y3 Spring 2 Healthy Food Pitta Pizza Y5 Food – celebrating culture  
**Mechanisms** – Y1 Autumn 1 Wheels and Axels making a moving toy vehicle Y2 Autumn 1 Making a moving toy rocket Y4 Autumn 2 Mechanical levers and linkages Christmas Cards Y6 Mechanisms pulleys or gears  
**Electrical Systems** - Y4 Spring 2 Circuits and switches Y6 Spring 1 Electrical Systems

### Links with English and Maths



- Every lesson is a reading lesson where appropriate
- High quality texts eg instructions, famous designers, etc linked to DT areas
- Expression of findings, critique and reviews both orally and in written form
- Language linked to critique, design and evaluation – vocabulary dozen

### Retrieval Practice



- Knowledge, skills and vocabulary identified
- Key concepts identified (above) are revisited across the year groups
- Key vocabulary built upon year on year
- Key ideas are investigated eg simple structures used to make more complex
- Links across year groups for retrieval of knowledge and skills

### Outcomes

- All units begin with an enquiry questions which children should be able to produce, design or make to fulfil the brief.
- At the end of the unit children with complete tasks which result in an end product/part product
- Whole school evaluation of products – differentiated
- Reflection eg Next time I would....

### Support

Everyone has access to the DT National Curriculum.

Support is provided for those learners who require it.

Considerations is given for learners who grasp concepts more rapidly in order to maximise their potential.