

Our DT Curriculum gives children the opportunity to develop skills, knowledge and understanding through designing and making functional products for a range of different users. They learn about key inventions and designers. Children are encouraged to think creatively and produce innovative designs as they explore the designed and made world in which they live.



DT YEAR 6

Subject: DT
Unit: Enterprise

Characteristics of an Effective Learner

Courage
Commitment
Collaboration
Creativity
Curiosity

Prior Learning:

- Application of a range of construction skills learned in previous years.
- Year 4 – Understanding the importance of customer appeal to maximise profit (Steady Hand Game)

Key Vocabulary taught in this unit:

Entrepreneur, enterprise, product, costings, outlay, profit, market research, customer appeal, quality control

Intent: What do we want the children to know, be able to do by the time they complete this unit?

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 / investigate and analyse a range of existing products

Design an appealing product to sell at the Christmas Fayre to raise funds for the school.

Investigate potential products suitable for sale at a Christmas Fayre drawing on experience from previous years.

Carry out market research to help decide which products are most popular with potential buyers.

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

Collaborate in a small group to decide on which product to make and produce a design annotated with possible material choices and costings.

Make prototypes to test whether their product is functional and aesthetically pleasing.

Make

Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately/ apply their understanding of how to strengthen, stiffen and reinforce more complex structure

Select appropriate materials from the following options: wood, felt, wool, card.

Make use of previously learned skills (eg. sanding, measuring, sawing, joining) to make a quantity of products.

Ensure that all products are finished to saleable quality.

Evaluate

Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work

Be able to make modifications to their design based on information gained from market research and making prototypes.

Develop their own criteria for evaluating the function, construction and customer appeal of their product.

Evaluate the overall success of the project by calculating the profit made from the sale of their products at the Fayre

To learn about the lives and business successes of two famous entrepreneurs :- Richard Branson and Sarah Bredelove.

Technical knowledge

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

Apply knowledge of different joining, stiffening and strengthening techniques to ensure their products are sturdily constructed.

Impact / Outcome:

What will the final product / result be?

Design brief: Design and make useful and aesthetically pleasing products to sell to the general public at the Christmas Fayre.

P4C Inquiry (where appropriate) – n/a