



Jerry Clay Academy
Subject Knowledge Organiser

Subject: D&T Year Group: 2 Term: Autumn

Core Learning of This Unit:

The children will create a **moving toy** as part of their **Mining theme**.

As part of this, children should be able to generate their own ideas drawing on experience; develop design ideas through discussion and observation and make simple drawings, labelling parts. Children will be able to begin to select tools and materials; use vocabulary to name and describe them; independently measure, cut and score with some accuracy; use hand tools safely and appropriately; assemble, join and combine materials in order to make a product; choose and use appropriate finishing techniques. At the end of the project, children should be able to evaluate their products and talk about likes and dislikes as well as strengths/possible changes.

Prior Learning:

- Suggest ideas and explain what they are going to do
- Identify a target group for what they intend to design and make
- Model their ideas in card and paper
- Develop their design
- Make their design using appropriate techniques
- With help measure, mark out, cut and shape a range of materials
- Use tools *eg scissors and a hole punch* safely
- Assemble, join and combine materials and components together using a variety of temporary methods e.g. glues or masking tape
- Use simple finishing techniques to improve the appearance of their product

National Curriculum Statements:

- explore and evaluate a range of existing products
- evaluate their ideas and products against design criteria
- design purposeful, functional, appealing products for themselves and other users based on design criteria
- communicate their ideas through talking, drawing, templates, mock-ups
- select from and use range of tools and equipment to perform practical tasks [for example, cutting, shaping]

Key Vocabulary:

Adhesive
Design criteria
Final design
Score/scoring
Demonstrate
Junior hacksaw
Drill
Balsa wood
Glue gun
PVA Glue
Sandpaper
Wheel
Dowel
Three-dimensional

Significant People