



Jerry Clay Academy Subject Knowledge Organiser

Subject: D&T Year Group: 3 Term: Summer

Core Learning of This Unit:

The children will create a **Waterproof product fit for outdoor purpose (e.g. a tent)** as part of their **The Great Outdoors theme**. This could initially be carried out as a whole-class project leading into individual projects considering different styles of tents depending on purpose and audience (could be a character from a book/lego/duplo man).

- As part of this, pupils will be able to Generate ideas for an item, considering its purpose and the user/s; Identify a purpose and establish criteria for a successful product; Think about their ideas as they make progress and be willing change things if this helps them improve their work; Measure, tape or pin, cut and join fabric with some accuracy; Use finishing techniques strengthen and improve the appearance of their product using a range of equipment including ICT; evaluate their product against original design criteria *e.g. how well it meets its intended purpose*; disassemble and evaluate familiar products (e.g. different tent structures)

Prior Learning:

- Begin to select tools and materials; use vocab' to name and describe them
- 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

National Curriculum Statements:

- generate, develop, model and communicate their ideas through discussion, annotated sketches
- 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
- select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately
- build structures, exploring how they can be made stronger, stiffer and more stable

Key Vocabulary:

Design brief
Design proposal
Stencil
Flexible
Function
Grid
Malleable
Method
Opaque
Texture
Translucent
Transparent
User
Waterproof
Adjust
Alter
Tape
Pin
Preparation
Strengthen
Tie and dye

Significant People

The **Sibley** tent was invented by the American military officer **Henry Hopkins Sibley** and patented in 1856. Tent materials changed drastically in the 20th century. Rigid support poles weren't made from wood anymore. Instead, manufacturers used steel and eventually plastic. Flexible support poles eventually gained favor with campers and guy ropes became less common. Some newer tents can be set up in a matter of seconds, and with the introduction of materials like nylon, tents became more resistant to the elements.