



Design and Technology Topic: Paper Mache Volcano

Year: 3 **Term:** Spring 1

Key Knowledge/Content:

- Select from and use a wider range of tools and equipment
- 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.
- Understand their functional properties and aesthetic qualities.

Links to:

Prior learning:

To know the user of their product, identify components of a product, use a templates effectively and use a range of techniques.

Future learning:

To research submarine designs and investigated the different materials, describe findings and analyse a range of existing products.

Key vocabulary with definition:

Prior vocabulary:

- User – A person who uses something.
- Purpose - The reason for which something is done or created
- Components – Parts of something.
- Template - A pattern used as a guide for cutting or drawing.
- Technique - A particular method of doing an activity, usually involves practical skills.

New vocabulary:

- Model – A three dimensional structure.
- Criteria- A standard by which something can be judged or decided.
- Functional- Of or having a special activity, purpose, or task.
- Appealing- Attractive or interesting.
- Label- Pointing to an object and giving information about it.

By the end of this unit

All children can: **perform** practical tasks and **select** from a range of materials.

Most children can: **demonstrate** how to use information to label their designs and **create** a three-dimensional model.

Some children can: **demonstrate** and **explain** their functional properties and aesthetic qualities.

Background understanding for teachers and parents:

The children are to going to be designing a volcano using paper mache. They are to learn a range of techniques and skills such as cut, shape and join to create their model. The children will design, make and evaluate their volcano.

Curriculum Driver (one):

Knowledge of the World

Evidence outcome:

Understand what a volcano is, what a volcano does and where volcanos can be found.