



Year 6 - Summer - Design & Technology Knowledge Organiser

What I already know...

- Experience of using measuring, marking out, cutting, joining, shaping and finishing techniques with construction materials
- Basic understanding of what structures are and how they can be made stronger, stiffer and more stable.

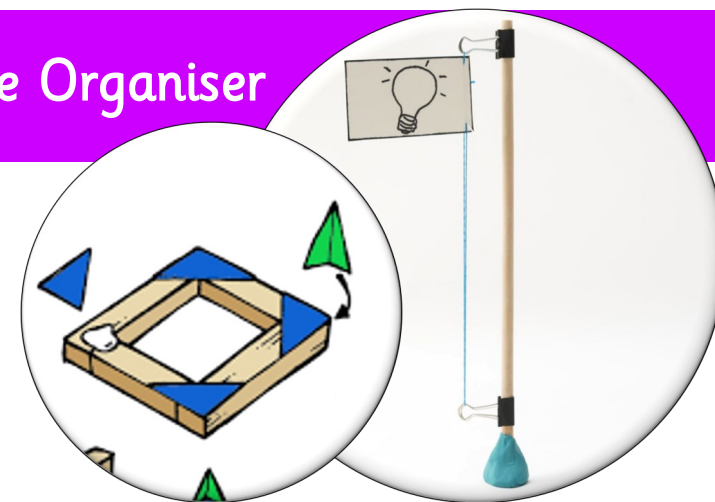
What I will learn...

Woodworking

- To know basic woodworking joints (butt joint, mitre joint, lynx jointer)
- To know how to strengthen joints
- To know how to risk assess and work safely with a variety of tools
- To know how to select appropriate materials
- To know how gears and pulleys can be used to speed up, slow down or change the direction of movement.
- To know that mechanical systems have an input process and output.
- To know that food packaging is often constructed from a 2D net
- To know how to apply their knowledge of a healthy balanced diet to plan a meal or snack

Key Vocabulary

Ingredients	Any of the foods or substances that are combined to make a particular dish.
Structure	A building or other object constructed from several parts.
Stiffen	Support or strengthen (a joint or structure), typically by adding additional materials.
Stability	The strength to stand alone or remain standing under some force or other.
Pulley	mechanism around which a cord passes, which acts to change the direction of a force applied to the cord and is used to raise a weight.
Joint	a point at which parts of an artificial structure are joined.
Specification	Something identified for precise requirement.
Packaging net	a two-dimensional (2-D) shape, which when scored, folded and glued together, makes a three-dimensional (3-D) package, box or carton
Evaluation	Making an informed and considered judgement about something.



Making a difference

Whilst immersed in their Theme Park learning, Year 6 pupils will design and build a bespoke theme park entrance way and moving flag. As well as this, children will have the opportunity to design and make a predominately savoury meal which could be sold at their theme park. As part of this, children will also design and make packaging for their food and use cross curricular links with maths and English to promote and price their products.

D&T skills

During this unit of learning, the children will use and develop a design specification. They will plan the order of their work, choosing appropriate materials, components and techniques and will assemble components to make working models. The children will design and create a simple pulley system and will incorporate this into their design. Once they have completed their project, the children will learn how to evaluate their products identifying their areas of strengths and development.