

Year 4: Design Technology Knowledge Mat

Subject Specific Vocabulary

Developing, planning and communicating ideas	Tools, equipment and processes
Cross-section - A view of an object, either imaginary or made by cutting through it.	Effort - The force which is put into a mechanical system.
Flow chart - Diagram showing a sequence of operations, that is, the order in which they are carried out.	Force - Something that changes the speed or direction of an object.
Exploded drawing - A 'blown-apart' drawing showing how the components are joined to make a product.	Fulcrum - Point which supports a lever or on which a beam will balance.
Ingredient - A component of a mixture, especially in food technology.	Hammer - Hand tool with a metal head for striking nails or other tools; the range includes small pin hammers, claw hammers and specially headed hammers for beating metals (safety warning).
Investigation - In design and technology, analysing a design brief and carrying out research.	
Modify - To alter or change a design.	
System - A series of components or products organised to perform a task.	

Materials

Abrasive - Any material which can be used to wear away the surface of another, such as glass paper.
Beam - Long piece of timber or metal, supported at both ends.
Propeller - A shaft with blades.
Reclaimed materials - Materials such as packaging, which have served their original purpose, or off-cuts which would otherwise be wasted.

Outcome ideas

Viking Long ship

Musical instruments