

PRIMARY ENGINEERS

THE LIGHTHOUSE PROJECT

MAIN PARTS OF A HACKSAW

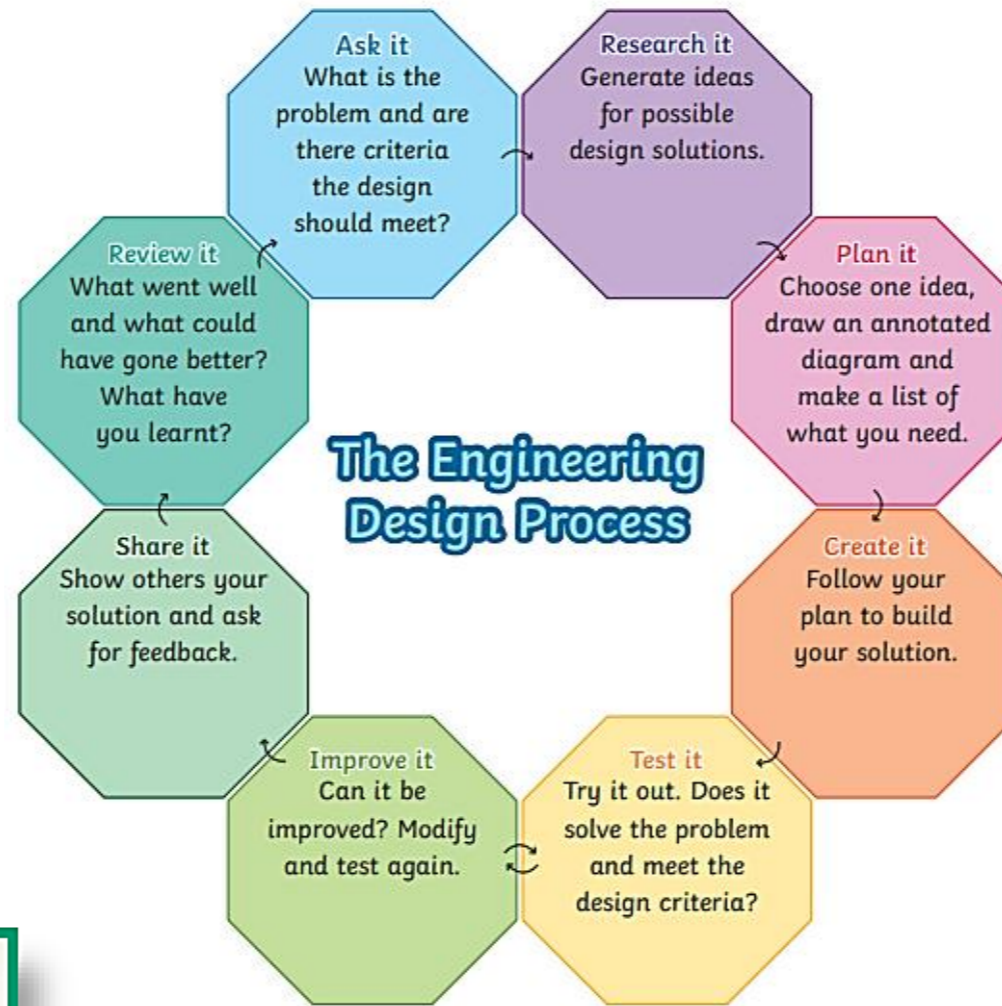
The typical **hacksaw** consists of a **saw blade** supported by a **frame** fitted with a **handle** to give a firm grip



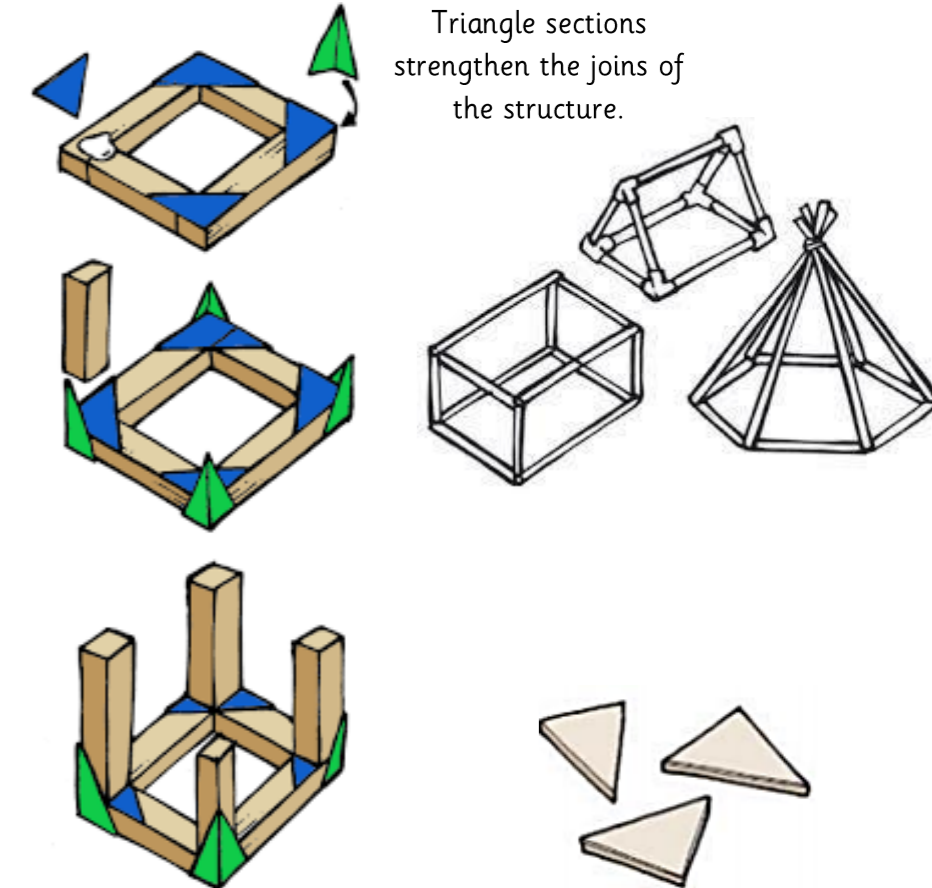
- Always wear safety goggles when using the saw.
- Cut using steady strokes, directed away from you.
- Use entire length of the blade in each cutting stroke.
- Do not twist hacksaw when applying pressure.
- Cut harder materials more slowly than softer materials.

Things to remember...

- ✎ When stripping the wire ends there is no need to pull



BUILDING THE STRUCTURE



Jinks' corner - the name given to triangular pieces of card that are used to join two pieces of wooden strip at right angles to one another

Key Vocabulary			
Adhesion	Adhesion is a force between two surfaces.	Modify	To change something to improve or fix it.
Bench Hook	A tool which hooks onto the edge of the workbench. It's used to hold woodwork still when sawing.	Polarity	The term used to describe the positive and negative terminals in a circuit.
Dovetail Saw/Gents	A small backsaw with thin blade, fine teeth, and straight handle used for accurate work	Prototype	A simple model that lets you test out your idea and how it will look and work.
Dowel	Wood in the shape of a cylinder. Dowels come in all different sizes and thicknesses.	Reinforce	To make a structure or material stronger, especially by adding another material or element to it.
Hacksaw	A saw with a narrow fine-toothed blade set in a frame.	Structure	Something that stands, usually on its own.
Jig	The primary purpose of a jig is to provide repeatability accuracy and interchangeability in the manufacturing of products.	Triangulation	Triangulation involves the use of triangular shapes to give stability to structures.
Mark out	To measure and mark where a piece of material needs to be cut or shaped.		

