

Key Content

Can use sheet and construction materials appropriately.

Can suggest improvements that could be made, considering materials, methods, sustainability of the product and how much a product costs to make.

Can evaluate the appearance and test the function of a product (own and pre-existing) against the original criteria, saying whether it is fit for purpose.

Can consider the aesthetic qualities and functionality of my product as making it, refining details as necessary.

Key Vocabulary

Knowledge

Objectives

Construct	Build or make something.
Materials	The matter from which a thing is or can be made.
Strengthen	Make or become stronger.
Stiffen	Make or become stiff or rigid, support or strengthen.
Reinforce	Strengthen or support an object with additional materials .
Structure	A building or other object constructed from several parts.
Analyse	Examine something in detail, in order to explain or interpret it.
Critique	A detailed analysis and assessment of something.
Saw	Hand tool for cutting wood typically with a long, thin serrated blade.
Drill	A tool with a rotating cutting tip used for making holes.
Sandpaper	Paper with sand stuck to it used for smoothing or polishing wood.
Net	2D plane figure which can be folded to form a 3D shape

- Handsaw safety**
- Make sure the saw is sharp as blunt saws mean you have to put in more effort which means technique is limited.
 - Use a bench vice or bar clamp to hold the wood firmly when sawing to keep hands away from the saw.
 - Take time to practice and introduce yourself to the saw first, get to know the equipment before using it.
 - Get the right techniques , one hand should be on the saw and the other should be at a safe distance holding the bench, once the cut is started, use the traditional back and forward motion to cut through.
 - Start with cutting small pieces of wood this will help to build confidence before you start

- Use sheets and construction materials appropriately.
- Explain multiple ways to strengthen, stiffen and reinforce 3D frameworks,
- Evaluate constructions, looking at ways to improve using correct technique vocabulary,
- Explain how to structure a construction process.
- Create a clear method for constructing a structure independently.
 - Construct a bird box.

