



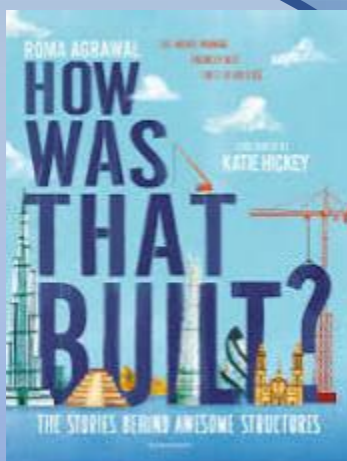
Design Technology

Year 5 Structures

Key Terms: Design Purpose, Design criteria, Evaluation, Product, Design brief, User/Client



Exciting Books



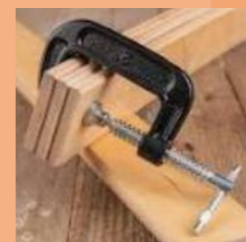
Concepts -

Climate

Equality

Sustainability

Identity



Aspirational People

"Dream" is a 20 metre high sculpture located on the former site of Sutton Manor Colliery in St Helens, designed by world-renowned and award-winning artist, Jaume Plensa. The sculpture takes form of a young girl's head.



Bench hook

A tool that is used to hold a piece of timber in place whilst cutting

Clamp

A tool that securely grips objects to prevent movement or separation

Timber

It is a type of wood that has been processed into beams and planks

Hand saw

A saw that can be used without power to cut timber

Corner protector

A triangular piece of cardboard/metal that is used to secure a corner and stop it from getting damaged

Joint

A natural connection where the ends of two wooden workpieces meet.

Accurate

To be accurate is to get something exactly right – when measuring you will get exactly the right length etc.

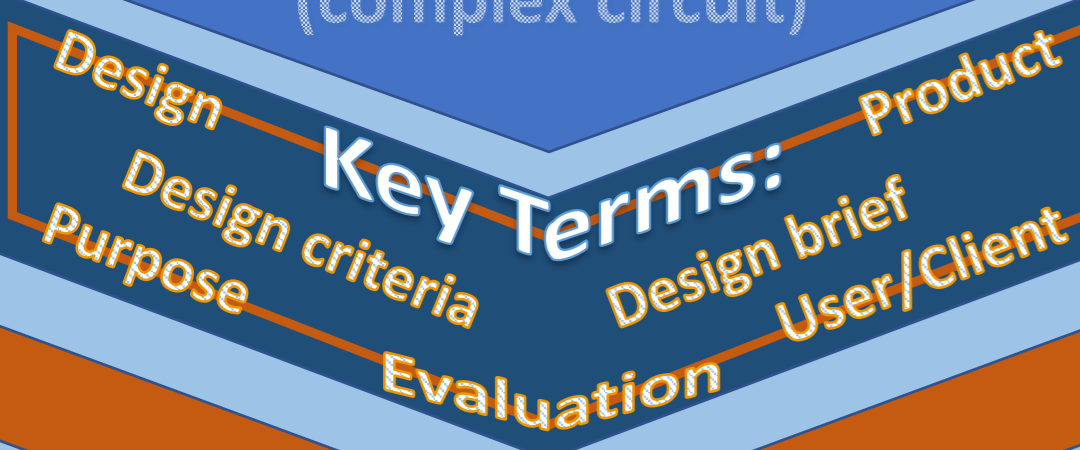
- ✦ Joints need to be cut on an angle so they can fit together when joined
- ✦ Wood glue can be used to connect the joints of your angle cuts.
- ✦ You should always cut away from yourself when using a saw.
- ✦ You need to use a clamp to hold the bench hook to the table to secure your piece of wood for cutting.
- ✦ You can use clamps to hold wood together whilst it dries in place.
- ✦ Corner protectors can be used to strengthen the joints.
- ✦ A saw has a sharp edge called teeth that is used for cutting.

Sticky Knowledge

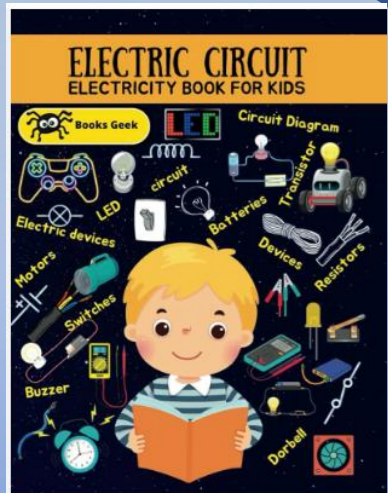
Subject Specific Vocabulary



(complex circuit)



Exciting Books



Concepts -

Climate

Legacy

Equality

Sustainability

Identity



Aspirational People

Caroline Haslett was an English electrical engineer, electricity industry administrator and champion of women's rights. She was the first secretary of the Women's Engineering Society and the founder and editor of its journal, *The Woman Engineer*.



- ✦ A complex circuit has more than one component in use.
- ✦ Different kinds of switches are used for different purposes.
- ✦ Circuits need to be contained/hidden within an object for safety.
- ✦ Most cars have a standard sensor trigger alarm installed that will go off when the sensor is tripped.
- ✦ Slide switches are often used in torches and other electronic devices.
- ✦ Pressure switches are used to show rises and falls in pressure in different machines.
- ✦ Some alarms are controlled by a computer – the switch sends a signal to the computer which activates the correct component in the circuit.

Switch

A device for opening and closing electrical circuits

Component

A part or element of a larger whole e.g. the wire/buzzer in a circuit.

Circuit

An electric circuit is a path for the transmission of electric current.

Functional

If something is functional it works/is useful

Tripping an alarm

Setting off the alarm by breaking the circuit.

Chassis

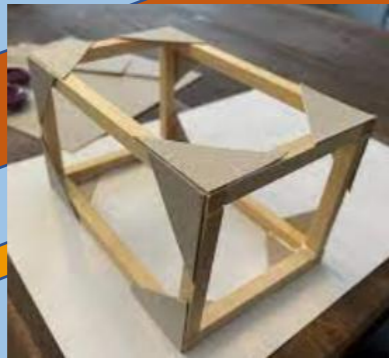
The main body of a vehicle

Vehicle

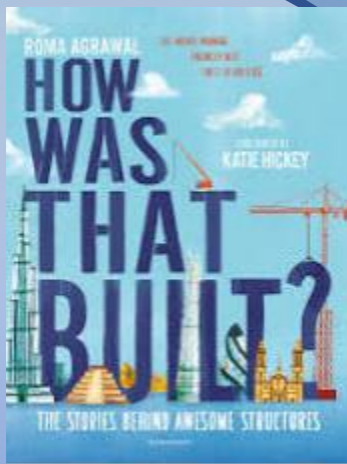
A machine used to transport people or objects.

Sticky Knowledge

Subject Specific Vocabulary



Exciting Books



Concepts -

- Climate
- Equality
- Sustainability
- Identity

- ✦ A joint is a natural connection where the ends of two wooden workpieces meet. Use wood glue to connect the joints of your angle cuts.
- ✦ You should always cut away from yourself when using a saw.
- ✦ Add pressure to the bench hook to secure your piece of wood.
- ✦ Clamps are designed to secure or hold any object. Using clamps holds wood together whilst it dries in place.



Sticky Knowledge

Aspirational People

"Dream" is a 20 metre high sculpture located on the former site of Sutton Manor Colliery in St Helens, designed by world-renowned and award-winning artist, Jaume Plensa. The sculpture takes form of a young girl's head.



bench hook



Batton



Timber is a type of wood that has been processed into beams and planks

Joints- in carpentry, junction of two or more members of a framed structure

clamp - tool securely grips objects to prevent movement or separation



Subject Specific Vocabulary