

**Edward Peake Church of England Middle School**

**Design Technology**

**Topic: Door Sign**

**Year: 5**

What should I already know?

- That all products have been designed to a set of criteria.
- That research is done into what the user likes before designs are drawn.
- That safety rules need to be followed when working with tools.
- That there is a sequence of steps to follow to make a product.

What will know by the end of the unit?

- How to use existing door signs to help write a specification.
- How to produce design ideas.
- How to work safely in the workshop.
- What plywood is and the properties that make it suitable.
- How to follow a set of instructions to make the door sign.
- How to use a coping saw to cut straight and curved lines in timber.
- How to use files and glass paper to smooth the edges of timber
- How to evaluate design ideas and a finished design.

**Vocabulary**

Design brief	An explanation of what the project should do.
Specification	A list of requirements the product should meet.
Evaluation	A review of how things have gone.
Plywood	A manufactured board the door sign is made from.
Coping saw	The saw used to cut straight and curved lines in timber.
File	Used to remove the saw marks from the edges of timber.
Glass paper	Used to make the surfaces of timber smooth.
Bench vice	Used to hold the work securely so it can be sawn, filed, sanded etc.

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### Plywood

Plywood is a manufactured board. It is made from wood.

It is made from thin layers of veneer glued together with the grain on the layers at 90 degrees to each other.

It is very strong.

It doesn't split easily.



### Key information

- A coping saw is used to cut straight and curved lines in plywood.
- Parts of the design need to be tested before you make the final product to check whether it will work.
- Accuracy of the door sign is how well the parts are finished and fit together.
- Research is used to create the specification that needs to be used to create the design ideas.

### Tools for making the jigsaw puzzle



#### Coping Saw

Used to cut out the pieces of the door sign.



#### Glasspaper

Used to smooth the sides of the door sign.



#### Flat file

Used to file straight edges to remove the saw cuts.



#### Half round file

Used to file internal curves to remove saw cuts.

### Investigation tasks

1. Find out about other products made from plywood. Why is plywood a suitable material for these products?
2. Research into different types of hand tools and what they are used for.
3. Can you design a door sign for your families bathroom?
4. Can you write a specification for a clock used to teach children to tell the time.