

Year 6 Resistant Materials: Photo frame

Knowledge Organiser

By the end of this project you will have:

- Completed a **Product** Analysis on existing photo frames.
- Explored your ideas through a series of sketch **designs**.
- Drawn and labelled a final **design**, with an **end user** in mind.
- Written a Design Specification for your photo frame.
- Measured, cut and sanded your wood, using a range of equipment.
- Constructed your final **structure**, and added decoration.
- Completed a series of **evaluations** throughout the project.



Practical skills you will use:

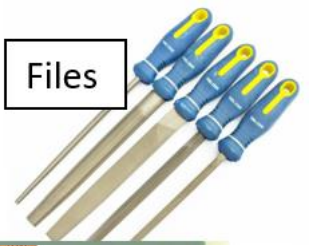
- Measuring with a ruler.
- Cutting the wood with **precision**, using a **fretsaw** or **tenon saw**.
- Sanding the edges using a **belt sander**, **file** or sandpaper.
- Drilling holes with a **pillar drill**.



Fretsaw



Files



Tenon saw



Belt sander



Pillar drill

Key Vocabulary

Product	The item that you are making – the photo frame.
Design	Come up with, and develop, your own ideas for a product.
End User	The customer for whom you are designing your product.
Precision/ precise	Measuring, marking and cutting with high levels of accuracy.
Structure	The way that the pieces of your bug house fit together to make the overall shape.
Evaluate	Think carefully about what went well and what you could have improved.