

Key spellings

- Technology
- Design
- Annotation
- Material
- Straight
- Safety
- Equipment
- Evaluation

Year 7 Design & Technology - Term 1

Tools and equipment

Hand file



- **SMOOTHS** the edges of material.
- Used with **WOOD, PLASTIC and METAL.**

Coping saw



- Cuts **CURVED** lines.
- Used with **WOOD** and **PLASTIC.**

Tenon saw



- Cuts **STRAIGHT** lines.
- Used with **WOOD.**

Pillar Drill



- Makes **HOLES** in material.
- Used with **WOOD, PLASTIC and METAL.**

Vice



- **SECURES** material in place while it is being worked on.
- Used with **WOOD, PLASTIC and METAL.**

Try Square



- Helps to **MARK OUT** and **MEASURE** right angles on a piece of material.
- Used with **WOOD, PLASTIC and METAL.**

How many words can you spell correctly?
Can you put the words in to a sentence?

Plastics

- **PLASTICS** are also known as **POLYMERS.**
- Plastics are **MAN MADE**
- There are **TWO** main types of plastic **THERMO PLASTIC** and **THERMOSETTING** plastic.

What tools and equipment do we use in Technology? What do they do? What materials are they used with?

Polyethylene Terephthalate (PET)

Drinks bottles and packaging.



THERMO PLASTICS:

- Can be **RE MELTED** and **REFORMED** and are also **RECYCLABLE.**

High-Impact Polystyrene (HIPS)

(Our crazy car) Food packaging.



THERMOSETTING PLASTICS:

- **CANNOT** be remelted and reformed and are **NOT** recyclable.

Glass reinforced plastic (GRP)

Boats and car panels



Phenol Formaldehyde (PF) - Electrical fittings and saucepan/frying pan handles.



What are the two main types of plastic?

Can you name at least one of each and give an example of a product that is made from it?