

# SPATULA PROJECT - YEAR 7



## Design Problem

Cooking food is very popular. Shops sell lots of equipment that is used whilst cooking. This equipment looks attractive and can be expensive. When cooking food it is often necessary to **mix** and **stir** food.

## Design Brief

Design and make a **spatula** that will be used to **mix** and **stir** food. The spatula will be made out of **beech**.

## Tenon Saw

The Tenon Saw is specially designed to cut wood in a straight line.



## Evaluation

Engineers evaluate their work at the end of the process; to see what was good about it, to see what could have gone better, to know how to improve their work next time.

## Health and Safety

The most likely cause of an accident in engineering is caused by **you**.

Workshop Do's	Workshop Do nots
Wear apron	Run
Have hair tied back	Misbehave
Wear goggles on machines	Leave bags on the floor
Listen Carefully	Misuse equipment
Concentrate at all times.	Ignore safety instructions.

## Surform and Hand Files

A **Surform** quickly removes waste material. It has a cutting surface that chips away the wood that is not needed. It will **not** make the wood smooth.

Hand Files are used to file material into shape and make it smoother.

Different **Hand Files** are used for different shapes.

1. A Straight Hand File for shaping straight lines.
2. Half Round File for internal curved lines.
3. Triangular File for tight angles.
4. Round File for circles.



## Belt Sander

The Belt Sander is a machine that will remove waste material quickly and leave the work smooth.

**Health and Safety** - Concentrate on what you are doing, only one person to use the machine, keep fingers a safe distance from the moving belt, wear an apron, wear safety goggles.



## Existing Products and Design

Before designing a product, designers always look at **existing products** that have been made. This can help them with the design of their own product. After they have researched existing products they will write a success criteria. The success criteria for a spatula is; comfortable to hold, sloped head, hole for hanging up and a good quality finish.

When designing the spatula use a sharp pencil, ruler for straight lines and colouring pencils to show the material.

