

Year 8 Maze Knowledge Organiser KS3

Previous knowledge you have already learnt, that you will use in this project.

- How to file acrylic (Cross file, draw file)
- Using a bench hook to cut timber
- How to use Wet and Dry paper

Knowledge you will gain

More in depth knowledge of Polymers, Paper and Board, Timber and Metals.

Using 6mm timber sticks

In depth Design Brief

Rendering of different materials

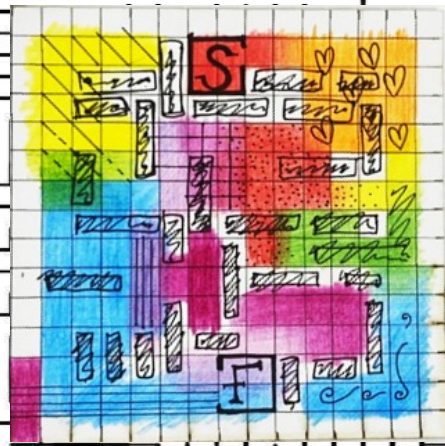
Manufacturing specification

Cutting list

CAD (Computer aided design)

Tools you will be introduced to, to build your Schema and Knowledge.

- Bench hook
- Polish
- Wet & Dry paper



Vocabulary

Textured	Texture is the visual and specially tactile quality of a surface. The way something feels
Embossed	To raise or represent surface designs in relief
Laminated	Set between two layers of plastic to make it waterproof
Printed	To produce a picture by applying ink to paper or other material by adding pressure
CAD (computer aided design)	Use of computers to aid in the creation or modification of a design. Time saving, improving quality of design, easy to change.
Wet and Dry	Using Wet and Dry Paper wet will prolong its life and makes for a better finish.

Brief description of the project:

You are to design and make a 90mm x 90mm square maze for a ball bearing to travel from start to finish. Your maze must be neat, look aesthetically pleasing and have a degree of complexity.

To know about:

- To understand how to work in a workshop.
- Select from and use specialist tools, techniques, processes and machinery precisely.
- To select from and use specialist tools, techniques, processes precisely.

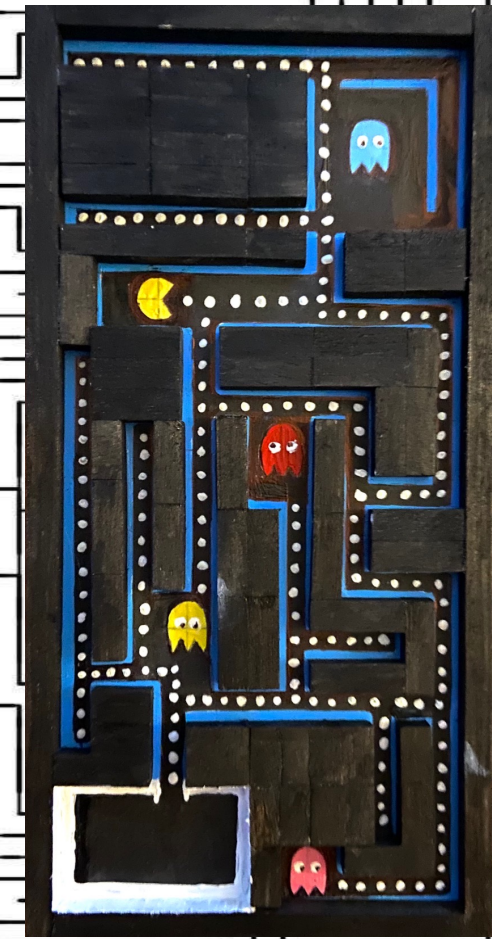
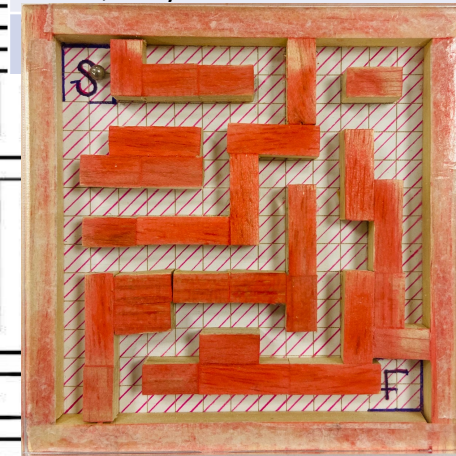
Key words

Ecological and social footprint

- Reduce
- Reuse
- Recycle
- Refuse
- Rethink
- Repair

Quality control

Non ferrous metals, ferrous metal, alloy



Quality control in your Sustainable Maze project.

- Make sure you have each wooden block inside squares on the grid so the ball has space to pass through.
- Cut each timber stick straight and check each one.
- All edges of Acrylic are filed straight and smooth.