

DESIGN TECHNOLOGY KNOWLEDGE ORGANISER

Topic: Wooden Wheeled Children's Toy Project







YEAR 8 DT

My Tool Box



Tenon Saw – Used to cut straight lines in wood.



Coping Saw – Used to cut curves and internal shapes in



Try Square –
Used to mark
out right angles.



Vice – Used to hold an object.



Hack Saw – Used to cut metal.



Pyro pen – Used to burn designs into wood



Pillar/Bench Drill – Used to drill holes into different materials.



Machine vice/Drill Press Vice – Used to hold workpiece securely during drilling.



Belt Sander – Used to sand/smooth down different materials

Focused topics

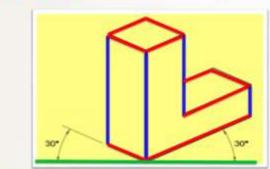
6 R's of Sustainability





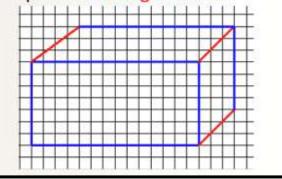
Isometric drawing

In isometric projection the drawing is made up of a series of parallel vertical lines and parallel 30 degree lines. There are no horizontal lines.



Oblique drawing

In oblique projection the drawing is made up of a series of parallel horizontal and vertical lines and parallel 45 degree lines.



Key Terms

Hardwood - the wood from a deciduous, broadleaved tree (such as oak, ash, or beech)

Manufactured Board – timber sheets which are produced by gluing wood layers or fibres together (such as MDF, Plywood and Chipboard)

Pyrography - decorating wood by burning a design on the surface with a heated metallic point

Renewable - Inexhaustible and replaceable

Softwood - the wood from a conifer (such as pine, fir, or spruce)

Sustainable - A sustainable resource can be replaced once used. As a tree is chopped down, many more can be planted to ensure the use of trees can be sustained.

Tasks

Task 1: Learn the tool names and their use.

Task 2: Learn the key words and the definition.

Task 3: Create 6 questions that can be answered from the information in the focused topic column.

Task 4: Draw two tools and write what they are for.

Task 5: Create a quiz based on task 1, 2 or 3. Get someone to test you.

Task 6: Create a mind map for the information you remember and red pen anything you've forgotten.

Task 7: Teach it. Create a task that can be used to teach some of the information from here.

To go further:

Introduction to oblique sketches:



More information about natural and manufactured timber:

