

D&T - Resistant Materials

Materials

Softwood pine comes from pine trees, which have needles instead of leaves. This wood is light, easy to work with, and has a pale, yellowish color. Pine is often used for furniture, building, and cabinets because it is affordable and flexible. Although it is softer than hardwood and can get scratched or dented more easily, it is still strong and used in many homes and businesses. Pine is also renewable, making it a more eco-friendly choice.

MDF (Medium-Density Fiberboard) is a type of wood made by pressing wood fibers, wax, and resin together under heat. This creates a smooth, strong, and durable board. MDF is often used in furniture, cabinets, and interior design because it's easy to work with, has a smooth surface, and can be shaped or painted easily. It is stronger than plywood in many cases and has a uniform texture, but it can absorb moisture and become damaged. It is also usually heavier than other types of wood.

Birch-faced plywood is a type of plywood with a layer of birch wood on top. It is made by stacking several layers of wood, with the top layer being birch, which has a smooth, light color and fine grain. This plywood is strong, durable, and resistant to wear, making it great for furniture, cabinets, and inside designs. People like it for its nice look, and it's often used when a high-quality finish is needed. It is also flexible, so it can be easily stained or painted.

Tools and Equipment

Coping Saw: A small saw with a thin, flexible blade used to cut curves and intricate shapes in wood.

Tri Square: A tool used to measure and check 90-degree angles in wood to ensure accuracy.

Steel Rule: A metal ruler used for precise measurements and marking in woodworking.

G-Clamp: A clamp shaped like a "G" used to hold wood or materials securely in place while working.

Tenon Saw: A small saw with a stiff back, designed for making straight cuts, especially for joints in woodworking.

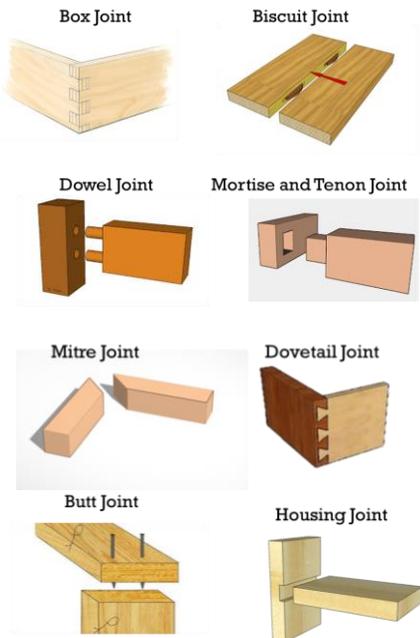
Wood Chisel: A tool with a sharp blade used for carving, shaping, or removing wood.

Wooden Mallet: A hammer made of wood, used to strike chisels and other tools without damaging their edges.

Marking Gauge: A tool used to make consistent and accurate marks on wood for measurements or cuts.

Range of Joints

Health and Safety



The workshop rules must be followed.

- Safety Glasses
- Protective Clothing
- Hair Tied Back
- Tools and equipment training.

Correctly, safely and independently.



Key words and Vocabulary

Function, form, ergonomic, anthropometric, size, scale, proportion, user, consumer, client, iterative, evaluation, manufacturing, tolerance.

Pupils will need to articulate their process using key words and technical vocabulary.

