



# Health and Safety

## PPE- Personal Protective Equipment

### Safety Glasses



Apron



Ear Defenders



### Dust Mask



Bobbles

# Y7 Knowledge Organiser- Garden Wildlife Project



## Rules & Expectations for Working in Technology & Workshops

The biggest danger in the D&T room is **YOU!** You are at risk when you don't understand the hazards or you are careless, or both. The person most likely to suffer from your mistakes is **YOU!**

1. Only enter a D&T room when told to do so by a teacher. Never rush about or throw things in a D&T room. Keep your work area and floor area clear, with bags and coats well out of the way.
2. Follow instructions precisely; only touch or use tools, equipment, machines and materials when told to do so by a teacher; never remove anything from any D&T room without permission.
3. Wear PPE protection when told to do so and keep it on until you have finished the work that needs the PPE protection.
4. When using TOOLS & EQUIPMENT make sure that ties, hair, baggy clothing etc. are tied back or tucked away.
5. Always stand up when doing practical in workshops so you can quickly move out of the way if you need to.
6. Always wash your hands carefully before & after practical work.
7. If you are scalded, burnt or a chemical splashes on your skin, wash the affected part at once with lots of water. Tell your teacher. You should also report any cuts or abrasions.

Report any accident, spillage or breakage to your teacher!



Coping Saw



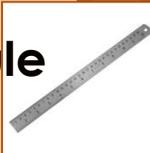
Scroll Saw



Disc Sander



Pillar Drill



Steel Rule



PVA wood glue



Try Square

Hardwood comes from deciduous trees Softwood comes from conifers or evergreen trees



BEECH

Deciduous trees have broader paper like leaves that change colour during the year and usually fall off in the winter



PINE

Evergreen trees usually Have very thin Needle like Leaves that stay on the tree during winter

## The 6R's

- **RETHINK:** Do we make too many products? Design in a way that considers people and the environment.
- **REFUSE:** Don't use a material or buy a product if you don't need it or if it's bad for people or the environment.
- **REDUCE:** Cut down the amount of material and energy you use as much as you can.
- **REUSE:** Use a product to make something else with all or parts of it.
- **RECYCLE:** Reprocess a material or product and make something else.
- **REPAIR:** When a product breaks down or doesn't work properly, fix it.

Two methods of filing are:

- Draw filing
- Cross filing

Unit of measurement in Technology is mm as it is more accurate.

## Design Process

Research	Mood/ Image board of existing product, questionnaires/ surveys and existing products.
Design Brief/ Specification	The design problem and how you intend to solve the design problem.
Initial Ideas	Range of creative design ideas that reflect points made in your design specification.
Final Design	The design chosen by your client/ customer which meets points made in your design specification.
Evaluation	An evaluation of the finished product and the design process as a whole.