

Previous knowledge and knowledge you will build on in this project:

- Learn how to cut types of manufactured board using a bench hook, from puzzle project.
- To use junior hacksaw appropriately
- To be able to understand air resistance and friction and how it will help the speed of my car.
- How to produce a detailed and annotated design sheet to help them to develop and realise their ideas.
- To have developed the best design idea (2D) so that it can be realised within the project constraints and brief.
- Working with a range of materials
- Joining materials using PVA glue.

We use **ACCESS FM** to help us write a **specification** - a list of requirements for a design - and to help us **analyse and describe** an already existing product.

- A** is for **Aesthetics**
- C** is for **Cost**
- C** is for **Customer**
- E** is for **Environment**
- S** is for **Size**
- S** is for **Safety**
- F** is for **Function**
- M** is for **Material**



Where have I learnt this before?

- Junior hacksaw- Puzzle project
- Coping saw- Memphis clock project
- PVA glue- Memphis clock project
- MDF- manufactured boards
- Designing and making principles

- What will I learn that's new?
- Knowledge you will build on:
- Forms of motion
 - Upcycling and recycling
 - More manufactured boards

Techniques

- Designing
- Sawing
- Filing
- Abrading
- Gluing
- Evaluating



	Vocabulary
Design	The creation of new products/things
Composition	Composition is the way the objects are placed next to each other.
Ideas	A thought or suggestion to a possible cause of action
Measurement	The size, length, or amount of something.
Development	Development is a process that creates growth, progress, positive change or the addition of components.
Pattern	A repetitive decorative design
Front view	What your design should look like from the front.
Design brief	Goal, Context, Constraints, Criteria
Friction	The resistance that one surface or object encounters when moving over another
Air resistance	Air resistance is a kind of friction that occurs between air and another object. It is the opposing force that the object experiences as it passes through the air, which can slow an object down as it passes through the air.
Manufactured boards	Manufactured boards are modified wood created by mixing and pressing various wood pieces. These pieces are held together by strong glue and are dried and cured to produce the best results.