

MODEL CAR



MTW Project: Model Car

Design Brief:

From the given materials and drawings, design and make a toy car. The car design must accommodate 30mm dia. wheels and 6mm axels.

Objectives of Project:

At the end of this project student will be able to:

- Research and investigate designs and develop a design solution to a given brief
- Communicate design ideas through freehand sketches
- Produce a template from chosen design solution
- Mark out and process curvilinear shapes
- Assemble multi-part projects
- Finish a project using a given applied finish

Pre-required Knowledge & Skills:

- Some project design experience
- Marking out and processing skills using coping saws, spokeshaves and usual hand tools

Tools & Equipment Required:

- Standard bench tools
- Spokeshaves
- Pillar drill or cordless drill
- Shaping tools (surforms, files)
- Finishing materials

Materials Required:

Materials per student:

Item	Amount	Width	Thickness	Length	Material
Car Body	1	70mm	20mm	200mm	Red deal
Wheel arch	2	44mm	20mm	200mm	iroko
Axel	2	6mm dia		60mm	beech
Wheel	4	30mm dia	15mm		beech

Theory Related to Project:

Topics or areas of syllabus that can be covered as part of project:

- *Hardwoods & Softwoods*
- *Drilling & Drills*
- *Tools:*
 - *Saws (coping saws)*
 - *Planes (spokehaves)*
 - *Shaping tools*
- *Adhesives*
- *Designing for function and aesthetics*

Time Allocation

Estimated amount of classes:

Start Date:

Finish Date:

Notes

- *As part of project planning in class students could produce card/ cardboard model of final design solution*