

Train Knowledge Organiser

Tier Three Vocabulary

CAD
 Sketchup
 Specification
 Design
 Dowel joint
 Tenon saw
 marking gauge
 sander
 evaluate
 annotate

Knowledge

Know how to Analyse and develop ideas from existing designs

Know how to write a specification

Know how to evaluate the work

Skills

Be able to select the correct tools and equipment

Be safe and accurate in the use of tools, machinery and equipment

Be able to spot hazards

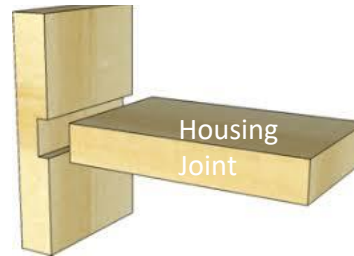
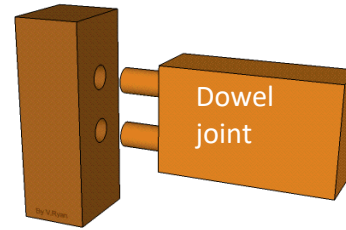
Have an awareness of safety procedures

Be able to use accurate measuring and marking skills

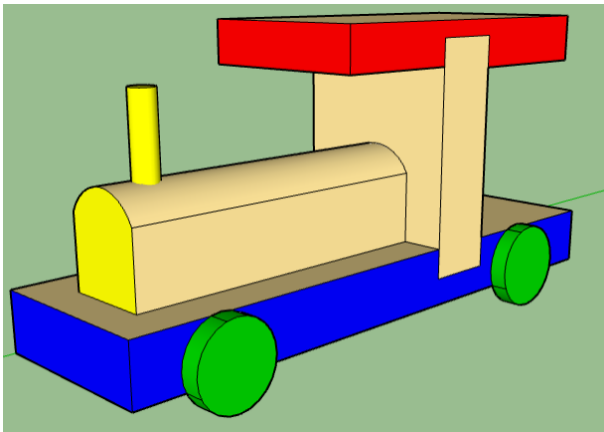
Evaluate and annotate their work

Develop and improve their work

Work effectively as an individual



SketchUp is a CAD (computer aided design package which can be used to complete 3D modelling



Train Achievement Descriptors

Good

- Train completed to a good standard
- 1mm gap between the joints
- All components made close to the correct size
- Less than an 85-degree angle on all of the corners
- Some saw and pencil marks evident
- Paint applied with a good level of accuracy
- Accurate carriage designed and manufactured

Better

- Train completed to an excellent standard
- No gaps between the joints
- All components made to the correct size
- 90-degree angle on all of the corners
- Very few saw and pencil marks evident
- Paint applied with an excellent level of accuracy
- Creative and accurate designed and manufactured

The Best

- Train completed to an excellent standard
- No gaps between the joints
- All components made to the correct size
- 90-degree angle on all of the corners
- No saw and pencil marks evident
- Imaginative and creative paint applied with an excellent level of accuracy
- Creative and challenging designed and manufactured

Tools and Equipment

Here are the tools and equipment used to manufacture a timber train:

Try Square used to mark 90°



Marking gauge

Used to mark a parallel line along the edge



Pencil



Steel rule



Tenon saw

Used to cut straight lines



Mallet:

Used to tap the chisel to create the housing joint



Chisels:

used to remove small pieces layers of timber a



Sander :

used to remove small areas of timber and make the parts smooth



Pillar Drill : used to create accurate holes in Materials

