

# Y7 RM: Knowledge Organiser

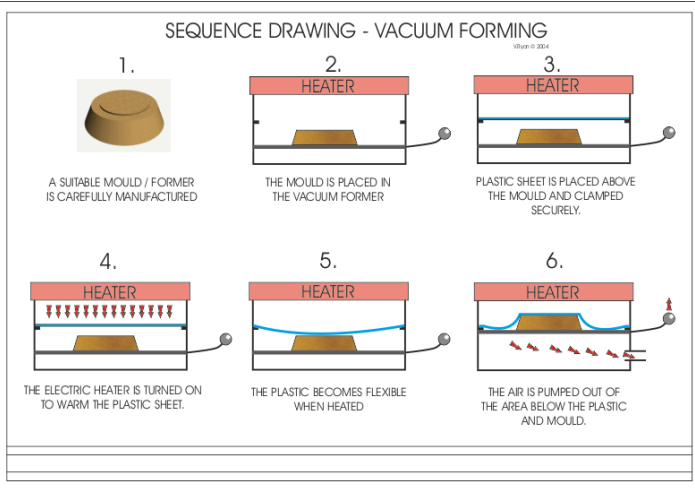
Y7 RM Key Words	
Bradawl	A tool for boring holes, resembling a small, sharpened screwdriver
Tri- square	We use it to help us draw a 90 degree line to an edge or for checking if a piece of work is at 90 degrees
Ruler	A ruler is a device with equally spaced markings along its length, used to measure distances or to rule straight lines
CADCAM	Computer Aided Design Computer Aided Manufacture
PPE/H&S	Personal Protective Equipment
Scotts Pine	Scott's pine is a softwood that is 'nice' to work with and gives a good finish when sanded, It is often 'knotty' so material selection is crucial
Ply wood	This is a manufactured board that is made of layers with the layers grain going in an opposite direction of the layer below it
Double sided tape	An adhesive tape with glue on both surfaces
Disc Sander	A piece of sandpaper which spins at high speed, this is used to remove waste put not to add finish
H.I.P.s	High Impact Polystyrene Sheet
Mould	The mould goes into the vacuum former and shapes the thermoplastic it must have a draught angle and no sharp edges

The Design Process	
Design Brief	A statement outlining what is to be designed and made
Specifications	A list of design criteria
Research	Sourcing information and inspiration to help with design work
Ideas	A range of potential solutions to the problem
Development	Further improving an idea
Final idea	A presentation drawing of chosen idea
Manufacture	Making the final outcome
Evaluation	Reviewing strengths and weaknesses of final product and design work

Materials in Yr.7  
**HIPs**  
**Scott's Pine**  
**Ply Wood**  
**Acrylic**

Have a look at:  
[Technologystudent.com](http://Technologystudent.com)

**Vacuum Forming**  
 This is the process of shaping thermoplastics using heat and a strong vacuum pump



**Health and Safety/Risk Assessment**  
 It is really important we **ASSESS** the RISK and **REDUCE** the RISK of injury by **LISTENING** to the **TRAINING** and following the correct PPE usage

**SAFETY FIRST**  
**WALK!**  
**DO NOT RUN**

**NO**  
 LOOSE CLOTHING  
 LOOSE SCARVES  
 LONG HAIR  
 EXPOSED

No access unless trained and authorised

**DANGER**  
**DO NOT OPERATE**  
**UNLESS PROPERLY TRAINED**