

Long Term Plan: Design Technology (RM) Year 9



	W/C 10/09	W/C 17/09	W/C 24/09	W/C 01/10	W/C 08/10	W/C 15/10	W/C 29/10	W/C 05/11	W/C 12/11	W/C 19/11	W/C 26/11	W/C 03/12	W/C 10/12	W/C 17/12
Term 1	Practical	Practical	Practical	Practical	Mid Term Test	Mid Term Test Feed Forward	Practical	Practical	Practical	Practical	Practical	Practical	Mid Term Test	Mid Term Test Feed Forward
	Introduction to course. Create a task analysis and mark out pine	Continue with marking out once done start cutting using tenon saw	Theory to cover types of timbers then continue with practical from last lesson	Theory to cover properties of materials. Practical students mark out apex and cut	Test based on machines, techniques and Theory taught to date	Test marked and students feed forward	Understand how different tools are used for marking out on different materials. Practical mark out and cut skids	Students mark out apple shape on side panel and cut out. Hole on the other side and use mesh and jig to create a peanut holder	Theory for students to understand the difference between a ferrous and a non ferrous metal. Continue with practical	Theory for students to gain understanding of what a 'sustainable forest' is. Then continue with practical	Theory to explain what a 'jig' is. Practical to apply knurling pattern using pillar drill - onto aluminium sheet	Finish assembly and write an evaluation for the birdhouse document on LG	Test based on machines, techniques and Theory taught to date	Test marked and students feed forward
Term 2	W/C 31/12	W/C 07/01	W/C 14/01	W/C 21/01	W/C 28/01	W/C 04/02	W/C 11/02	W/C 25/02	W/C 04/03	W/C 11/03	W/C 18/03	W/C 25/03	W/C 01/04	W/C 08/04
	Theory	Theory	Theory	Theory and practical	Theory and practical	Mid Term Test	Mid Term Test Feed Forward	Theory and practical	Theory and practical	Theory and practical	Theory	Mid Term Test	Mid Term Test Feed Forward	Theory and practical
	Introduction to material properties. Start with papers and boards; timbers	Students continue with material properties looking at metals and polymers	Textiles theory on types of fabric and weaves. How to attach fabric i.e. seams	Textiles: students experiment with batik and tie dying	Forces and stresses. Using a selection of materials compare how different stock forms resist different forces and stresses.	PG Online test based on material properties	Test marked and students feed forward	Demonstrate how materials can be strengthened. Use lamination as an example. Ear wrap project	Continue with lamination project or ball bearing game	Ecological and social footprint. Understand the effects consumers are having on the environment. Upcycled lamp project or plane	Go through the 6R's and the difference between finite and non-finite resources	Test based on machines, techniques and Theory taught to date	Test marked and students feed forward	Scales of production explanation and activity based on badge making. Students split in groups and have to create a production line
Term 3	W/C 29/04	W/C 06/05	W/C 13/05	W/C 20/05	W/C 03/06	W/C 10/06	W/C 17/06	W/C 24/06	W/C 01/07	W/C 08/07	W/C 15/07			
	Theory and practical	Theory and practical	Theory	Mid Term Test	Mid Term Test Feed Forward	Theory	Theory	Theory and practical	Theory	Mid Term Test	Mid Term Test Feed Forward			
	Investigation Primary and Secondary data. Write a design brief using SSS (ICSAT) for Trinket Box Project. Mark out finger joint	Continue with designing principles. Students to create a specification for Trinket Box. Cut finger joint and assemble box	The work of others. Create a research page on 4 designers of their choice. Direct students to CGP for selection if unsure. Students to use 2D to create design for Trinket Box lid	Test based on machines, techniques and Theory taught to date	Test marked and students feed forward	The work of others. Students to produce a sheet of research based on 2 companies e.g. Dyson Coca Cola or Primark	Design strategies. Toothbrush project - students sketch a range ideas for handle. Students gain understanding of Ergonomics. Go through design fixation and iterative design	Continue with designing. If students finish go onto modelling in blue foam. Students create handle for tooth brush and attach on to head.	Photograph product and write an evaluation	Pre test revision and then test from PG Online	Test marked and students feed forward			

For information on assessments see additional assessment guidance
 Feedforward Session