

SOW overview		Year	7	Specialism	RM	Project	702 Rollerball
Lesson							
Wk 1	Introduction to project. Set out limits of size and the need to produce a centre design. Write up brief. Generate designs for shape of case. Draw chosen design in 3D. Design for centre.	Roller Ball booklets Sample products Drawing equipment	1A 1B 1C 1D 1F				
Wk 2	Develop final design. Exploded drawing of final design in Isometric with rendering. Develop flow chart to explain clearly each stage of the construction process.	Booklet, H/W Research into wood screws and their use.	1H 1E 1B				
Wk 3	Start construction. Collect parts, screw parts together. Draw shape and cut out with coping saw. Cleaning up outside.	Booklet Materials H/W Plastics and their properties	1G 4C 2A 2B 2C				
Wk 4	Demo on use of pillar drill for countersinking ball bearing drop holes.	Booklets Materials H/W Retrospective planning of product.	2B 2C 4A 4C				
Wk 5	Continue production. Those finished early to start on extension work, stand for game. Demo of card modeling and strip heater for producing bend.	Usual drawing equipment and Pcs. H/W User views, collect 4/5 views of your product.	4A 4C 2B				
Wk 6	Complete product and evaluate. Girls to develop criteria for evaluating under guidance. Modifications to be drawn up in 3D.	Resources as for previous week H/W	4A 4C 3A 3B 3C				
Wk 7	Return assessment grades, comments and Targets for next project.						
Wk 8							
Wk 9							
Wk 10							