KS4Project Scheme of Work 2018-19

Subject			Topic		Year Group Length 10 ¹⁰⁻¹² weeks		Target Grade	
WJEC Product Design			Games and puzzles.	Games and puzzles.		10-12 weeks	A-C	
Investigating the design context		t	Development of the design proposal		Testing and evaluation		Communication	
Research using existing products. Questionnaire to get feedback on product Specification writing		s. ducts.	Generate three different ideas. To Develop one into a final design. get Use CAD and 3D drawing to refine the design.		Test the product on class mates and form a way of getting feedback for the design. Suggest ways that the product could be improved.		y of Present a folder of work which is of that GCSE standard.	
ICT SKILLS Making					HEALTH AND SAFETY			
Research			Model the chosen idea in car	Various H&S risks will be addressed in				
CAD			Make a puzzle or game usi	accordance with the risk assessment.				
				Demonstration and supervision at all times.				
Publisher to presen	t work							
Digi Pictures								
		Learning ACTIVITY			SKILLS AND KNOWLEDGE			
			ning and Making a game or a puzzle for a	Fi	Final practise run at setting out a GCSE style			
EXTENTION WORK		designated user group.			older and practical piece.		TECHNICAL LANGUAGE	
Re design product to take into ac- count the findings of the evaluative							Design Brief Situation	
feedback.							Research Specification	
							Generation of ideas Final design	
							Evaluation.	

Les- son No	Learning Objective We are Learning to (WALTS)	Specification Focus	Teaching Activity	Outcomes Plenary (WILFs) Assessment	Health and Safety	Resources
1	Make and investigate an exist- ing game.	Investigation and making	Intro to task. Look at Steps to success. Take part in making FPT Game.	Understanding of box construction	Supervised at all time . De- mos given.	Fully stocked work-
2	Researching a task	Investigation And Communication	Introduce Design Brief. Pupils to produce folder layout on ICT. Collect existing products Hwk– Add annotation to Ex Products.	techniques. Neatly presented work. An understanding of Design task.	nios given.	shop with wood/ plastic and metal tools and machinery.
3	Researching a task	Investigation Communication	Guide pupils to write a questionnaire. Hwk– Ask people from home to fill in the questionnaire. Summarise the feedback. Guide class to writing specification.	High level annotation Understanding of how to write a concise questionnaire		Various materials.
4	Generating ideas using guid- ance of research	Development of Design proposals Communication	Pupils to produce Generation of ideas. Develop ideas to produce a final design. Modelling . Hwk– Finish Gen of ideas.	A detailed specification A range of feasible and original ideas, well presented and annonat- ed.		
5	Generating ideas and model- ling ideas.	Development and Modelling Communication	Modelling Produce detailed final design. Fill in cutting list and begin to make the prod-	An accurate scale model.	Supervise use of knives. Use cutting mats	
6	Calculating material sizes	Making	uct. Making	An understanding of sizes and the need for accuracy.	and safety rul- ers.	
7-9	Making accurately.	Making	Making	Safe and effective use of all tools and machinery.	Demonstration of unfrmiliar tools and ma-	
10	Making accurately	Making	Making	Safe and effective use of all tools and machinery.	chinery. Supervision throughout.	
11	Making accurately	Making	Guide pupils to evaluate their product by ask- ing peers to try it out and get feedback for im- provement.	Safe and effective use of all tools and machinery. An understanding of how to pro- cess feedback to improve the product further.	unougnout.	
12	Evaluation of products by peer testing.	Evaluation Communication				
13	Evaluation of products by peer testing.	Evaluation Communication	Guide pupils to evaluate their product by ask- ing peers to try it out and get feedback for im- provement.	product further.		

Assessment

Grade	Investigating the design context	Development of the design proposal	Making	Testing and evaluation	Communication
А	Well presented and annotat- ed existing products, ques- tionnaire and a detailed specification.	Well presented design ide- as with annotation show- ing how they would be made. Model to scale and neatly produced.	Use of a range of tools and equipment correctly, safely and accurately.	mulation of relevant im-	High quality presen- tation. Use of a range of communication techniques.
С	Presented with some care. Labelling to a basic level of understanding. Specifica- tion which mentions most points.	Three ideas at least. Pre- sented to show some mate- rial/ making details. Modelling neatly produced with some accuracy in scale.	need for help. Safely and	Some basic testing which allows the designer to see and make notes on im- provement.	Good presentation with different tech- niques used.
Е	Presented with little care. Few notes written about ex- isting products. A very simple specification.	Few designs, with limited inclusion of meaningful labelling. Presented poor- ly. Modelling of very little use.	Some tools and equip- ment used at a basic lev- el. Help needed often.	Little useful testing with no evidence of findings.	Low level presenta- tion. Limited range of techniques used.

Addition all assessment