KS3 Project Scheme of Work 2018-19

Unit title		Торіс			Year Group	Length	Target levels	
Desk tidy.		te an acrylic desk tidy from 150mm by 100mm piece. Using strip heater and pil- ve the practical piece. 7				4 weeks	3 - 5	
Explore Level 3– Show that you know that your desk tidy needs to meet various needs and requirements. Level 4– Produce a questionnaire to ask users what the Desk tidy should be like. Level 5– Show 3 sources of research – Pen sizes, Questionnaire and Exist- ing products page.		Generate Level 3– You will generate at least three simple ideas to show how the Desk tidy will look. Level 4– Add notes onto your well presented drawings to show how your research has helped. Level 5– Add detailed annotation to your detailed drawings to show how the Desk tidy will be made.	<u>Developing</u>		<u>Planning</u>	Le in t Le con Le tid	valuating evel 3- Identify superficial shortcomings the final outcome. evel 4- Recognise and record any short- mings in the final outcome. evel 5—Suggest ways in which the Desk ly could be improved using annotated etches.	
ICT SKILLS Searching and presentation of Ex- isting products page.		Making Produce a practice pen rack. Use a 150mm by 100mm piece of acrylic to make design.			ake a desk tidy to the pu	a desk tidy to the pupils between the pupils HEALTH AND SAFE Demonstrations and supervisio using hand and machine tools. beater, and Pillar drill are areas tial risk.		
		ACTIVITY		SKILLS A	ND KNOWLEDGE			
EXTENSION WORK Pupils can shape a small alumini- um keyring.		Pupils will present some research in survey. Pupils will design and make their ow using a 150mm by 100mm piece of a	How to drill, bend, shape and smooth acrylic sheet. How to research a project. Development of graphical skills 2D and 3D.		Pup two	PERSONAL LEARNING and THINKING Skills Pupils will be assessed on the following two PLTS: EFFECTIVE PARTICIPANTS Discuss ideas, Persuade others, Find solutions, Communicate confidently, Flexibility and Get involved. CREATIVE THINKERS Invent, Question ideas, Make Connec-		
OPPORTUNITIES FOR LAC Acrylic, Thermoplastic., Dimensions Strip Heater, Pillar drill,Emery cloth Wet and `Dry paper, Brasso polish. Include these key words on the board		will design three alternative Desk tidys and will sketch them out. Following some brief develop- ment work the pupils will make their chosen de- sign.			Dissolu solu Flez			
Include these key words and or printed sheet to h Homework and class wo	elp with	Expected Prior Knowledge Pupils will have made a small practice pen rack prior to this project. This will teach them how to smooth, drill and bend acrylic.		Differentiation The pupils practical ability will be evident from the practice pen rack. Pupils will be guided when de- signs are too complex.		om the tion	tions, Persevere, Use imagination and Take risks.	

Wk	Learning Objectives We are Learning to (WALTs)	Strategy Focus	PLT focus And LAC	Teaching Activity (Including Dyslexia friendly teach- ing)	Outcomes Plenary (WILFs) (Assessment)	Health and Safety	Resources Inc Dyslexia friend- ly resources
1	Marking out, shaping, drilling, smoothing and bending acrylic.	Making high quality products.		- Pupils to make an example pen rack from 100mm by 50mm acrylic. Focussed task. Demo pillar drill and strip heater and smoothing edges. H,wk- Produce a step by step plan of how you made your practice pen rack. <i>Allow pupils to write in a list of Keywords</i> .	Accurate marking out, Ac- curate drilling, Smooth edges, Precisely bent an- gles.	All machinery and hand tools to be demonstrated fully and pupils to be supervised while using them.	Fully equipped workshop. Strip heater. 100mm by 50mm acrylic
2	Learn how to write an effective questionnaire.	Exploring the task.		 Produce a questionnaire & get 10 peers to fill in answers Use computers for gammar and spell checks. Hwk– Collect info about the sizes of items to fit in product. 	Effectively laid out surveys which are easy to fill in.	Use a correctly sharpened drill bit, hand vice and guard.	each. <i>Keywords list.</i> <i>Computer suite.</i>
3	Learn how to Generate ideas and present them.	Generation of Ideas.	Creative think- ers.	 Explain by demo how to produce gen of ideas. Pupils use research to draw three ideas with annotation. Make scale paper prototypes of ideas to clarify design thoughts. <i>Kinaesthetic Learning</i>. H-wk– Add detail to gen of ideas and add colour rendering. 	Well presented design ideas which are workable. Use of Card models to reinforce the readers understanding of the ideas.		Steel Rulers with mm meas- urements.
4	Marking out, shaping, drilling, smoothing and bending acrylic.	Making high quality products.		 Pupils to make product. <i>Kinaesthetic learning</i> Drill holes, finish edges and bend into shape. Hwk– Produce a step by step of how the making was done. <i>Encourage all pupils to make a keyword list.</i> 	Accurate marking out, Ac- curate drilling, Smooth edges, Precisely bent an- gles.	As above. Power tools to be used with Goggles,	150mm by 100mm Acrylic each. <i>Key words list.</i>
5	Learn how to evaluate a product and how to pre- sent work to others.	Making high quality products.	Effective partic- ipants.	Allow pupils to take photo of key list if they want. Complete making of the product. Evaluate the finished product by allowing peers to ry it out. Take part in a short presentation to per- suade others that their Desk tidy is a viable product.	Confident presentation of the product. The ability to talk about their experience in Resistant Materials.	aprons.	Pillar drills fit- ted with 4mm drill and 11mm drill. Aprons and goggles.

Assessment

Level	Exploring Ideas and Task	Generating ideas	Developing and modelling	Planning	Evaluating	Making
3	Level 3– Show that you know that your desk tidy needs to meet various needs and requirements.	Level 3– You will generate at least three simple ideas to show how the Desk tidy will look.			Level 3- Identify superficial shortcomings in the final outcome.	Use tools and equipment to produce a Desk tidy with some accuracy, Marking out Shaping Drilling Smoothing
4	Level 4– Produce a questionnaire to ask users what the Desk tidy should be like.	Level 4– Add notes onto your well presented drawings to show how your research has helped.			Level 4- Recognise and record any shortcomings in the final outcome.	You should select and work with a range of tools and equipment paying attention to finish and function.
5	Level 5– Show 3 sources of re- search– Pen sizes, Questionnaire and Existing products page.	Level 5– Add detailed annota- tion to your detailed drawings to show how the Desk tidy will be made.			Level 5—Suggest ways in which the Desk tidy could be improved using anno- tated sketches.	Able to modify ideas when needed. Working with tools and equipment showing some precision.

Addition all assessment

Examples of Year 7 Work











