Subject: D&T

Year Group: Year 7

Students in Year 7 complete a range of project. These are set in different orders from group to group to provide access to shared specialist equipment

During this term, students will use a program called 2D Design a student version can be downloaded free from here for Windows use. <a href="https://eggbuckland.sharepoint.com/:u:/g/Technology/EfqYOlKo9a5Ar">https://eggbuckland.sharepoint.com/:u:/g/Technology/EfqYOlKo9a5Ar</a> PdpLhGSMoBQJNZAQGP3et-tpBmMFxgRA?e=ddm2F5

Having downloaded it, please use these instructions to install the licence file. <a href="https://eggbuckland.sharepoint.com/:w:/g/Technology/EaWHw-ru2MZCoRj3NKWMx8sBiLroJC8KqQ8bg7XYQd6eww?e=rGalur">https://eggbuckland.sharepoint.com/:w:/g/Technology/EaWHw-ru2MZCoRj3NKWMx8sBiLroJC8KqQ8bg7XYQd6eww?e=rGalur</a>

This should give access to all functionality apart from printing. Work can be saved and printed in College or recorded via a screen shot and printed from Word or similar.

Mini	Subject	NC strand	Key Learning points/big questions	Independent/Home learning	Linked Assessment	Resources
project and	Topic	See end				
week						
Ball Hurler	Introductio	М	Understanding a working drawing	Draw and label the tools used in the lesson.	Low stakes test	Ball Hurler
1	n to a	T/K	Marking out	Explain what each is used for	End of project	Resources
	working		Units of measurement	Identify units of measurement used on	assessment	https://eggbucklan
	drawing		Accuracy	product specifications. Understand the		d.sharepoint.com/
	Use of		Use of try square, bench hook, tenon	reason(s) why different ones are used		:f:/g/Technology/E
	equipment		saw, g cramp			<u>r3mbXAJd7FPn</u> s
			Wood			yKz2cakBgf53WiER
			Safe working			Q9ZZYfVtCFfS-
Ball Hurler 2	Marking	M	Understanding a working drawing	Investigate and explain the process of turning	Low stakes test	g?e=LJHGDU
	out and	T/K	Marking out	trees into a usable material	End of project	
	cutting		Units of measurement		assessment	https://youtu.be/V
	joints		Accuracy			vUPJPFg4wM

Ball Hurler 3	Safe use of	M	Use of try square, bench hook, tenon saw, g cramp Safe working Understanding the need for jointing timber Where does wood come from?	Investigate methods of jointing timber used	Low stakes test	
ball fluffer 3	a pillar drill Use of PVA	T/K	Jointing Use of the pillar drill Adhesives Safety	at home. Draw and explain 2 examples	End of project assessment	
Ball Hurler 4	Safe use of the sander	M T/K	Use of the sander Project assembly Dowel rod Adhesives	Identify 3 potential hazards associated with using a sander. Explain the hazard and how it could be reduced.	Low stakes test End of project assessment	
Ball Hurler 5	Finishing techniques Joining using screws	M T/K	Accuracy Quality of finish Use of screws	Identify 1 permanent and 1 non-permanent method of parts used at home. Draw and label the items	Low stakes test End of project assessment	
Ball Hurler 6	Reflecting on work complete and personal evaluation	E	Evaluating and testing		Low stakes test End of project assessment	
Mini project and week	Subject Topic	NC strand See end	Key Learning points/big questions	Independent/Home learning	Linked Assessment	Resources

Maze 1	Design	D	What is CNC	Investigate and record use of industrial CNC	Low stakes test	Maze game
	maze	M	What is CAD	machinery	End of project	resources
	Cut maze	T/K	Using 2D design to draw a maze game	- macrimery	assessment	https://eggbucklan
	on CNC	1,1	File management		dosessinent	d.sharepoint.com/
	router		Email			:f:/g/Technology/E
Maze 2	Clean up	М	Use of files, W&D, buffing m/c.	To explain advantages in using CAD over	Low stakes test	sVazO8vkcpNl5DV
Widze Z	maze	T/K	Application of colour	drawing by hand	End of project	xU0OJmABLruYrLU
	inside	','`	Application of colour		assessment	KymQ Jwu8FTehC
	File and				dosessinent	A?e=Sqq0b2
	polish					71.0 344352
	acrylic					https://youtu.be/
	Apply					QhAXbA2lmnE
	colour					
Maze 3	Fitting top	М	Micro drills to pilot holes	Design a package for your maze game	Low stakes test	
	Evaluation	E	Screw drivers to assemble	a congress parameters year management	End of project	
			Evaluate		assessment	
Mini	Subject	NC strand	Key Learning points/big questions	Independent/Home learning	Linked Assessment	Resources
project and	Topic	See end	, 31 , 31			
week	100.0	000 0				
w f l l			N4 + 1 - 5 - 5 - 5 - 5			
Key fob and	Design	D = ///	What is a Design Brief?	Investigate and find an example of a logo.	Low stakes test	Key fob resources
packaging	Brief	T/K	What is a logo?	Print / copy and explain why it is effective	End of project	https://eggbucklan
1	Monochro		What makes a good logo?		assessment	d.sharepoint.com/
	me design		Design a range of ideas for a key ring			:f:/g/Technology/E
Vov fob and	Use of 2D	D	Satting up page	To ovaloin the definition of managhrams	Low stakes test	kJk9XM9LedEvdVv
Key fob and			Setting up page	To explain the definition of monochrome		QT5PGjkBF YZk6ih
packaging	Design to	T/K	Line setup	design	End of project	hczZGo0acqpx5w?
2	draw		Coving and amailing		accaccmant	- I- CI D
2	draw		Saving and emailing		assessment	<u>e=hGbapP</u>
2	draw monochro me key fob		Saving and emailing		assessment	<u>e=hGbapP</u>

Key fob and	Laser	T/K	Continuation of above	Identify ways plastic items are put together /	Low stakes test	Focus on Plastics -
packaging	cutting		Joining acrylic – Tesnol Cement	assembled. Draw / photograph and explain	End of project	Focus eLearning by
3	design				assessment	Focus Educational
	Step by					Software ltd.
	step					
	account of					https://youtu.be/h
	manufactu					ukafUxglmE
	re					
	Fit ring					https://youtu.be/c
						YOC8 jJcII
Key fob and	Use of 2D	T/K	What is the purpose of packaging?	Investigate the process of recycling plastics	Low stakes test	
packaging	Design to	D	Sustainability issues with packaging		End of project	
4	design		Designing packaging		assessment	
	packaging		Use of vac former			
Key fob and	Packaging	T/K	Recycling		Low stakes test	
packaging	End of unit		Assessment of progress		End of project	
5	test				assessment	

In the event of a full or partial closure of the year group, it will not be possible to teach all aspects of this course. Flexibility will need to be exercised by teachers and some lessons will be moved around.

NC Strand Key:

D Design

M Make

E Evaluate

TK Technical Knowledge