What I will know and understand by the end of Year 7.





This year in Design & Technology we will be learning:					This links to:			Key vocabulary:	
1	Be fully aware of all Health workshop including tools ar procedures associated with minimum 5 key Health and	nd machinery especial h the Pillar drill and San	All areas of technology y and safety, this will be re and also in KS4	n PPE (Personal Protective Equipment) Pillar Drill Belt Sander					
2	Gain an understanding of t Be able to write a detailed to the pencil holder project to complete design ideas s design problem/situation.	design brief linked t which will be used	Need			Design brief, Analysis, Specification			
3	Produce a range of high questions aspects of the desi problem/situation for both the second s	ign brief and requireme		Skills you have develope your ideas through rendeevaluations.	Develor Render, Annota				
4	Use CAD/CAM (Computer produce & design the torch as: Line, Fill, Delete, Attach,	h key ring. Use key tools		This will be revisited in Y8, upton.	design,	ter aided Computer nanufacture,			
5	Be able to identify and corr with a high degree of accu saw, Coping Saw, Try Squar	uracy and safely includ		You will recall this informatechnology, acting in a saccurate way	Safety, Component, Parallel, Perpendicular				
6	Evaluate own and peers pe areas for improvement. Use evaluate product including	e key criteria identified)	Moving thought KS3/4 you designs and outcomes to them.	Evaluate				
	Target Grade AP1				AP2		AP3		

What I will know and understand by the end of Year 7.





This year in Design & Technology we will be learning:				Ihis lin	Key vocabulary:			
1	How to analyse a task, yo decisions about the desig including safety,colour, siz design and theme.	n features 🖊	Design Process		Making Evalua Generating Ideas Specification	Research	Design br Analysis, Specifica	
2	How to design a cushion to values. You will come up design idea. You will rend	with three initial desig	gn ideas and or		Specification, evaluate, customer, development			
3	Be fully aware of all Health workshop including tools of points and procedures as dying, including PPE, and	and machinery espe sociated with the sev	ety	These skills will be used design a product in te links to KS2 learning.	Render, annotate			
4	How to Pin and tack a de pattern. How to make a p		se of a	You will use the skills whin Y9.	s Safety, customer			
5	Tie - dyeing of fabric (cust complete a tye dye cushi by twisting and tying your	on front. You will sho	Can be used in KS4 te:	Tie -dye				
6	Be able to correctly threa sequence, Using a sewing			Used in KS3/KS4. Using way	Safety			
Target Grade AP1			AP2		AP3			

What I will know and understand by the end of Year 8.





This year in Design & Technology we will be learning:						This links to:		Key vocabulary:		
		To have a strong und movements including research and analysis	g Bauhaus, Mem	_		rimary and	Bauhaus, Memphis, De Stijl			
	2	Strengthen understar specifications to infor and appealing produ	m the design of	innovative, f	Year 7 design s product function product disasse analysis	nality, year 9	Specification			
	3	Further develop a rar skills such as crating, isometric projection e	Year 7 & 9 drav cube drawings	wing techniques,	Isometric, Rendering					
		Produce a range of h communicate desigr detailed plans.				Year 7 & 9 desi	ign work,	Annotation		
	5	Use 3D Modelling to develop and communicate design ideas				Year 7 CAD/CAM and KS4 & KS5 Engineering		Modelling, Annotate		
	6	Expand upon initial CAD/CAM knowledge and skills further. Develop skills of using CAD/CAM software to help solve design issues and produce viable design solutions.			Year 7 CAD/CAM and KS4 & KS5 Engineering		Computer aided design, Computer aided manufacture			
		Target Grade AP1		AP2		AP3				

What I will know and understand by the end of Year 8.





This year in Design & Technology we will be learning:			This links to		Key voca	bulary:			
	1	Name different types happens if the load is shapes and which is tand why.	Engineering and construction at ks4 with KS3 science		Natural structures, man made structures				
	2	The meaning of truss how do they make a scommunicate design modelling.	Modeling links NC another way to sho ideas. Linking to the picture.	w design	Forces, compression.				
	- ,	Design and make to sthe weight of 500g.	scale a bridge that	nd	Understanding a br solving a design pro		Tension , bending		
	4	Select from and use so processes, equipment modeling and making health and safety rule PPE.	e of	Basic tools have be in Y7. further developed of skills can be use	opment	Gussets, trusses, millimeter, measurement.			
	5	Identify and solve your own design problems when testing your bridge. Thinking of how this bridge can be made stronger.				Independent thinking and problem solving. Ks3/4 technology.		Strength, structure.	
	Target Grade AP1			AP2		AP3			

What I will know and understand by the end of Year 8.





This year in Design & Technology we will be learning:							This links to:		abulary:
	1	Identify areas of a d hazards. Recall 5 he followed.			Health and safe technology roo machinery safe	m in Y7. Using	Hazards, Safety		
	2	Name different bact bacteria can be rec contamination. Mod	luced along with wo	•	Further learning looks at basic h growth of bact	ygiene and	Food poisoning, contamination		
	3	Recommend health unhealthy dish into c ingredients come fro	healthy option. Thir	king about whe	KS2 healthy eat towards sustain making informe choices	ability and	Balanced diet, nutrition, Vitamins		
		Consider ways allerg the difference betw		-		Links to KS4, how sectors must alv customers and	ways consider	Allergy, intolerance	
	5	Through modeling tr pizza. You will also m chopping, whisking,	kills such as	In Y9 you will move onto to making a variety of pastry, use of hand techniques		Yeast, enrobing, blending			
	,	Working with the rele you have been shov applying health and	vn to produce a ran	ge of high quali	ty dishes whilst PE.	You will revisit for you will need to how to use the produce more	remember cooker and	Hob, grill, oven,	
	Target Grade			AP1		AP2		AP3	

What I will know and understand by the end of Year 9.





Th	is year in Design	& Technology v	This links to:		Key vocabulary:			
1	range of equipment in	nd of health and safety a both a classroom/kitch rant in the hospitality in	en environment b	Previous learning relevant to prace	•	Health and safety at work act, PPE, COSHH		
2	Will use a range of equesavoury and sweet dis pasta bake, sausage r	National curricu and builds on p learnt	•	Fermentation, creaming method, knead, consistency,				
3		oles and responsibilities offered. The difference		house and back	The bigger pictory the WJEC cour KS4	ures and also se offered in	Full time, part time, zero hours, fixed term, temporary, agency	
4	environment and why	and intolerances have a we must consider them etween allergies and in	when cooking a	hospitality nd in school. The	PHSE+ the importance of following school guidelines		Allergies, intolerances, visible, non visible, gluten, coeliac, lactose	
	Have a good understa and how we can reduction.	atives to food	Environmental impacts in science and Geography. Design for the future		Sustainable, food miles, government, Planet, Environment, Pollution			
6	habits of the people of	ts a brief that aims to ir Middlesbrough. Sugge educe the amount of ta risis.	est a catering prov	vider that would	Social issues, links with health, science and PHSE+		Nutrition, balanced, obesity,	
Ta	Target Grade AP1						AP3	

What I will know and understand by the end of Year 9.





This year in Design & Technology we will be learning:			This links to:		Key voc	abulary:			
	Be fully aware of all F safety regulations an within the Construction			Mandatory, Hazards, Signs, Regulations, Risk Assessment					
2	properties used across Engineering and Construction				KS4 Engineering an Looking into materi and characteristics	ial properties	Properties Characteristics		
3	- MICON CHCINI CON VEHIN HEALT CONTROL OF CHCINIC CONTROL OF CONTROL C				Use of computers and drawings CAD but also hand drawn Engineering drawings		2D Design, Sketchup, orthographic projection drawings		
4	Understanding materials used in Construction and Engineering, linking to dimensions and costing of the bird box. Link these costings to real life scenarios and profit/loss of projects				KS4 Engineering and Construction as well as industry and the wider world of work.		Materials, dimensions, costing, material properties		
_	Produce time consideridentified and linked consider costs and la manufacture.	KS4 Engineering an as well as industry o world of work. Unde scales and prediction	and the wider erstanding time	Time scales, GANTT charts, costing, labour					
6	Develop numeracy skills specific to Engineering and Construction scenarios and real life examples focussing on material costing and estimation.			This links to design and manufacture and confidence for KS4 Engineering and Construction as well as industry and the wider world of work.		Materials, Safety, Tools and Equipment, Machinery, Tolerance			
	Target Grade AP1		AP2		AP3				