2022-2023 Year 8 Curriculum and Assessment Plan for Key Stage 3 Design & Technology.

lease note: Pupils may start the term on Half term					
lalf Term 1: Technology focus-Wood workshop	Subject specific skills being developed:	Half Term 2: Technology focus- Wood workshop	Subject specific skills being developed:	Half Term 3: Technology focus- CAD CAM- 2D Design software, plastics.	Subject specific skills being developed:
All pupils will know:	Measuring and	All pupils will know:	 Use of cutting 		 CAD software
P P P P P P P P P P P P P P P P P P P	marking		tools	All pupils will know:	which runs the
low to draw isometric shapes.	dimensions to	How to manufacture a wooden container using finger joints	 Use of shaping 		laser cutter.
low to apply this drawing technique to design	create a wood	as a joining method and tools and equipment in the wood	tools.	Why modelling is important in design work.	 How to devel
deas.	joint.	workshop.	 Finishes for 	How to use Computer Aided Design (CAD) and Computer	designs furthe
now the 4 different motions. Vhy tolerances are important.	 Working within 	Research biomimicry and design a range of earphone	woods.	Aided Manufacture (CAM) to produce an earphone holder	using the
low to manufacture a finger joint from wood to	tolerances.	holders using freehand sketching.		based on nature.	iterative desig
nake a container.	 Accuracy with 				process.
make a comainer.	hand tools in				Problem solvir
	the wood				Biomimicry
All pupils will be assessed by:	workshop.	All pupils will be assessed:		All pupils will be assessed:	designing.
(nowledge quizzes	Reading Skills needed	Knowledge quizzes	Reading Skills needed for	Knowledge quizzes	Reading Skills needed
End of unit test.	for this unit:	End of unit test.	this unit:	End of unit test.	for this unit:
	Skim/Scan, summarising		01: 40		Skim/Scan, summarisin
Impact- Why do we teach this?	key information,		Skim/Scan, summarising	lung and Miller de coele Heiro	key information, analy
	analysis and evaluating	Impact - Why do we teach this?	key information, analysis	Impact - Why do we teach this?	and evaluating
o widen pupils drawing skills to show techniques			and evaluating	Developing design ideas.	
o support design work.	Kara Maja albadanan	Pupils will gain the skills required to use a range of hand	Kara Va a sila alam u	To teach the importance of modelling, testing and	Kara Managhari ara
Vhy tolerances need to be taken into an	Key Vocabulary:	tools, equipment and machinery in the wood workshop to	Key Vocabulary:	evaluating to produce a product.	Key Vocabulary:
account.	Isometric	manufacture a wooden container with a rotating lid.	Abrasive paper	CAD CAM supports the GCSE specification.	Developing
low to accurately measure and mark a wood	Drawing technique	To develop pupils manufacturing skills with timber to support	Coping saw File		Iterative design Modelling
oint.	Develop Softwood	the GCSE. Life skills.	Adhesive		Evaluating
ife skills.	Manufactured boards	LITE SKIIIS.	Finger joints		Evaluating
	Tenon saw		Dowelling		
	Scroll saw		Biomimicry		
	Motion		Tolerance		
	Tolerance		Sustainability		
	Belt sander		Motion		
	Don sandor		Wollon		
	Opportunity for cross-		Opportunity for cross-		Opportunity for cross-
	curricular skill		curricular skill		curricular skill
	development		development		development
	 Art- Designing, 		 Art- designing. 		Computer
	drawing skills.		Maths- Directors		Science.
	Maths- Discountings		Dimensions		
	Dimensions				
	mm/cm				
			1		

Faith is our Foundation

Half Term 4: Technology focus-Food Technology

All pupils will know:

Know and understand and be able to apply rules of food hygiene and safety.

Know the function and food sources of various micronutrients

All pupils will be assessed:

Knowledge quizzes

End of unit test.

Impact - Why do we teach this? Matched against NC

- understand and apply the principles of nutrition and health
- cook a repertoire of predominantly savoury dishes so that they are able to feed themselves and others a healthy and varied diet
- become competent in a range of cooking techniques [for example, selecting and preparing ingredients; using utensils and electrical equipment; applying heat in different ways; using awareness of taste, texture and smell to decide how to season dishes and combine ingredients; adapting and using their own recipes

Subject specific skills being developed:

- safety in food room
- Knife skills
- Using oven & hob
- Use of small and large equipment
- Preparation of different food commodities

Reading Skills needed for this unit:

Skim/Scan, summarising key information, analysis and evaluating

Key Vocabulary:

Micronutrients
Vitamin A,B,C,D
Iron
Calcium
Bacteria
Food hygiene
Safety

Opportunity for crosscurricular skill development

- Sciencenutrition
- Math- weights and measure
- Englishreading and following recipes in a logical
- sequence
- **PE-** diet and exercise.

Half Term 5: Technology focus-Food Technology

All pupils will know:

Know what is meant by food provenance.

What is meant by seasonality and its importance to the environment and diet and health.

All pupils will be assessed:

Knowledge quizzes DNA End of unit test.

Impact - Why do we teach this? Match against NC

- understand and apply the principles of nutrition and health
- cook a repertoire of predominantly savoury dishes so that they are able to feed themselves and others a healthy and varied diet
- become competent in a range of cooking techniques [for example, selecting and preparing ingredients; using utensils and electrical equipment; applying heat in different ways; using awareness of taste, texture and smell to decide how to season dishes and combine ingredients; adapting and using their own recipes]
- understand the source, seasonality and characteristics of a broad range of ingredients

Subject specific skills being developed:

- safety in food room
- Knife skills
- Using oven & hob
- Use of small and large equipment
- Preparation of different food commodities

Reading Skills needed for this unit:

Skim/Scan, summarising key information, analysis and evaluating

Key Vocabulary:

Provenance Seasonality Environment

Opportunity for crosscurricular skill development

- Science- nutrition
- Math- weights and measureEnglish- reading
- and following recipes in a logical sequence PE- diet and exercise.
 Geography- food and the

environment

Half Term 6: Technology focus. Food Technology

All pupils will know:

Understand the different ways in which our foods are produce (free range, organic, intensive), pros and cons of each.

All pupils will be assessed:

Knowledge quizzes DNA End of unit test.

Impact- Why do we teach this? Matched against NC

- understand and apply the principles of nutrition and health
- cook a repertoire of predominantly savoury dishes so that they are able to feed themselves and others a healthy and varied diet
- become competent in a range of cooking techniques [for example, selecting and preparing ingredients; using utensils and electrical equipment; applying heat in different ways; using awareness of taste, texture and smell to decide how to season dishes and combine ingredients; adapting and using their own recipes]
- understand the source, seasonality and characteristics of a broad range of ingredients

Subject specific skills being developed:

- safety in food room
- Knife skills
- Using oven & hob
- Use of small and large equipment
- Preparation of different food commodities

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Reading Skills needed for this unit:

Skim/Scan, summarising key information, analysis and evaluating

Key Vocabulary:

Free range Organic Intensive faming Environment

Opportunity for crosscurricular skill development

- Sciencenutrition
- Math- weights and measure
- English- reading and following recipes in a logical sequence
- PE- diet and exercise.
 Geographyfood and the

environment

Ensuring this curriculum meets the needs of all pupils: this curriculum has been designed to ensure pupils from all starting points will develop the key curriculum skills and knowledge identified. The curriculum design ensures that each unit forms part of the overall learning journey and there are opportunities for revisiting skills and linking together key pieces of knowledge. Whole Academy policies and practices are followed to tailor the delivery of the curriculum for individuals and groups of students. For example SEND students have individual learning profiles that outline needs/strategies to be used. Whole group RIPs are in place to identify key teaching strategies that will be used with individual teaching groups. Ongoing formative assessment and clear summative assessment points allow individual staff and departments to identify misconception and adjust curriculum appropriately.

Enrichment opportunities:

After school clubs

Career opportunities/ links: Carpenter, product designer, website designer, graphic designer, engineer Food Technology, Nutritionist, Chef, Hotel /Restaurant Managers ,Dietician, Farmers, Food scientist