



Year 8 Milestone Criteria

Design & Technology

Assessment Objectives

- DT1 – Properties and uses of materials/ingredients
- DT2 – Research and design specification
- DT3 – Analysis of existing products
- DT4 – Developing and presenting design solutions

- DT5 – Planning and manufacture of quality products
- DT6 – Evaluation of own product
- DT7 – Knowledge and understanding of electronics
- DT8 – Knowledge and understanding of mechanisms
- DT9 – Knowledge and understanding of Health and Nutrition

PURPLE	DT1	Apply knowledge of materials/ingredients to select them appropriately for a product.		
	DT2	Analyse research to create a justified specification.		
	DT3	Apply the understanding of a brief to critically analyse existing products.		
	DT4	Develop a range of detailed and realistic design solutions to meet design criteria.		
	DT4	Accurate use of more complex 3D graphic techniques.		
	DT5	Apply knowledge of manufacture by planning the manufacture of product.		
	DT5	Adapt design and manufacture to overcome problems while making a product.		
	DT5	Manufacture a fully functional product with a high quality of finish.		
	DT6	Test against design criteria to critically evaluate a product.		
	DT6	Explain realistic improvement to a product.		
	DT7	Apply knowledge of electronics to design a circuit for a given brief		
	DT8	Design a product with complex mechanisms		
	DT8	Use understanding of mechanisms to test and evaluate the function within own product		
	DT9	Evaluate the nutritional value of food products and suggest alternatives.		
BLUE	DT1	Demonstrate an understanding of materials and ingredients when working with them.		
	DT2	Develop fully justified specification criteria which are relevant to a brief.		
	DT3	Evaluate the analysis of existing products to create relevant design criteria.		
	DT4	Accurate use of graphic techniques and scale when presenting design ideas.		
	DT4	Develop a range of design ideas, annotated with realistic materials and processes.		
	DT5	Apply knowledge of manufacture by selecting appropriate tools and processes.		
	DT5	Independently select and use tools/equipment with precision to manufacture a product from a plan.		
	DT5	Manufacture a functioning product with a good quality of finish.		
	DT6	Apply design criteria to evaluate own product, justifying points made from observations of the product.		
	DT7	Apply knowledge of electronics to fault find a circuit		
	DT8	Use basic mechanisms when designing and manufacturing a product		
	DT8	Analyse the use of mechanisms in existing products, justifying their use.		
	DT9	Apply understanding of nutrition to design meals/foods to achieve a balanced diet		
	GREEN	DT1	Explain the key differences between groups of materials and foods.	
DT2		Consider the user's needs and justify specification points.		
DT3		Use ACCESS FM system to analyse an existing product, justifying the points made.		
DT4		Develop a range of annotated design ideas to meet a design brief.		
DT5		Read scales to measure and mark out materials with accuracy – within 1mm/25g/15ml.		
DT5		Plan the outline manufacture of a product of own design.		
DT5		Complete a functioning product, paying attention to quality of finish/presentation.		
DT6		Reflect on your product against design criteria and describe suitable improvements that could be made.		
DT7		Explain the function of each component in a simple circuit.		
DT8		Apply knowledge of mechanisms to select appropriate mechanisms for a purpose.		
DT8		Identify common mechanisms in existing products		
DT9		Explain the function of main function of the main macronutrients		
YELLOW		DT1	Recall a names and key information about the materials used.	
		DT2	Develop a list of relevant criteria for a product specification.	
	DT3	Highlight the positive and negative aspects of an existing product focusing on ACCESS FM.		
	DT3	Identify simple comparisons between similar products.		

	DT4	Present a simple drawing of a range of design ideas labelling key design choices	
	DT5	Read scales to measure and mark out materials with some accuracy – within 1cm/100g/100ml.	
	DT5	Recall names of tools and processes used.	
	DT5	Can use tools and equipment safely.	
	DT5	Produce a product which functions adequately.	
	DT6	Explain the positive and negative aspects of your own product.	
	DT7	Follow instructions to build a simple circuit	
	DT7	Recall the names and functions of commonly used electrical components	
	DT8	Recall the names of commonly used mechanisms	
	DT9	Recall the food groups from the eatwell guide and identify the correct proportions	