

Design and Technology			
Question number	Question	Total available	Link to support
1ai	Name the energy source	1	
1aii	Disadvantages of using renewable energy	2	Fossil fuels - Energy generation and storage
1bi	Benefit of electric cars	2	Using primary and secondary data
2ai	Identify the mechanical motion	2	Using primary and secondary data
2aii	Explain the mechanical motion	2	Using primary and secondary data
2b	Calculate the speed of the crank	2	Principles of mechanical systems - Mechanical
2bii	Calculate the gear ratio	2	Principles of mechanical systems - Mechanical
2bii	use the word bank	2	Principles of mechanical systems - Mechanical
3ai	What is GSM?	1	Principles of mechanical systems - Mechanical
3aii	State why the structure of cocorrugated card is beneficial for packaging	1	Impact on society - New and emerging technologies
3aiii	State an advntage of corrugated card	2	Papers and boards - Material categories and
3bi	Materials to make a saucepan	2	Papers and boards - Material categories and
3bii	Discuss the properties of the materials	2	Papers and boards - Material categories and
3ci	state the meaning of MDF	1	Papers and boards - Material categories and
3cii	Name a piece of CAM equipment	1	Functions of electronic systems - Systems: Sources and functions of components
3ciii	Discuss why MDF is versitile	4	Sources and origins - Timbers
3civ	How can the surface finish of MDF be	2	Sources and origins - Plastics
3di	Name the Polymer used in the jumper	1	Sources and origins - Plastics
3dii	Why has a natural polymer been used in	3	
4ai	Complete the table to describe the man made board properties	6	Sources, origins and properties - Textiles: Sources
4bi	State the most appropriate polymer	1	Iterative design - Designing
4bii	Explain why thermoforming polymers are used to make bottles	3	Sources and origins - Papers and boards
4ci	Complete the textiles sentences	3	Production techniques - New and emerging
4cii	Discuss the properties of silk and	3	Production techniques - New and emerging
4d	Size of A3 paper	1	Production techniques - New and emerging
4dii	describe the advantages of using recycled	3	Production techniques - New and emerging
5ai	State the meaning of CAM	1	Production techniques - New and emerging
5cii	Evaluate you chosen CAM device	3	Production techniques - New and emerging
5bi	State on CAD package	1	
5bii	Disadvnatges of using CAD	4	Functions of electronic systems - Systems: Sources and functions of components
5ci	Safety when using CAM	2	Functions of electronic systems - Systems: Sources and functions of components
6aiii	Evalute the CAM device	4	Functions of electronic systems - Systems: Sources and functions of components
5d	Calculate the volume	5	Functions of electronic systems - Systems: Sources and functions of components
6ai	State the joining component	1	Functions of electronic systems - Systems: Sources and functions of components

6aii	State the machine	1	
6aiii	explain the finish	2	
6aiv	State the equipment	1	Functions of electronic systems - Systems: Sources and functions of components
6v	Describe the manufacture	4	Iterative design - Designing
6b	create the bar chart	3	Iterative design - Designing
6bii	Calculate the VAT	3	Iterative design - Designing
6c	Analyse deforestation	5	Iterative design - Designing
6d	Evaluate prototyping and modelling	6	Iterative design - Designing