<u>Year 1</u>	<u>Autumn 1</u>	<u>Autumn 2</u>	<u>Spring 1</u>	<u>Spring 2</u>	Summer 1	Summer 2
Areas of Study	Homes – 3D modelling		Moving pictures		Buildings and structures	
Literacy Focus	<b>Literacy:</b> To be able to write instructions in cooking or making a design.		<b>Literacy:</b> To be able to write instructions in cooking or making a design.		<b>Literacy:</b> To be able to write instructions in cooking or making a design.	
Numeracy Focus	Numeracy: Maths using m	easurements and numbers.	Numeracy: Maths using mo	Numeracy: Maths using measurements and numbers.		easurements and numbers.
<u>SMSC</u>	RE- celebratin	g sacred times.	RE- celebratin	g sacred times.	RE- celebrating	g sacred times.
Year 2	<u>Autumn 1</u>	<u>Autumn 2</u>	<u>Spring 1</u>	<u>Spring 2</u>	Summer 1	Summer 2
Areas of Study	Sewing - Rangoli Patterns		Vehicles		We are bag /fashion designers	
Literacy Focus	<b>Literacy:</b> To be able to write instructions in cooking or making a design.		<b>Literacy:</b> To be able to write instructions in cooking or making a design.		<b>Literacy:</b> To be able to write instructions in cooking or making a design.	
Numeracy Focus	Numeracy: Maths using measurements and numbers.		Numeracy: Maths using measurements and numbers.		Numeracy: Maths using measurements and numbers.	
<u>SMSC</u>	RE- celebratin	g sacred times.	RE- celebrating sacred times.		RE- celebrating	g sacred times.
Year 3	<u>Autumn 1</u>	<u>Autumn 2</u>	<u>Spring 1</u>	Spring 2	Summer 1	Summer 2
Areas of Study	We are exhibition designers		Packaging		Sandwich snacks	
Literacy Focus	<b>Literacy:</b> To be able to write instructions in cooking or making a design.		Literacy: To be able to write instructions in cooking or making a design.		<b>Literacy:</b> To be able to write instructions in cooking or making a design.	
Numeracy Focus	Numeracy: Maths using measurements and numbers.		Numeracy: Maths using measurements and numbers.		Numeracy: Maths using measurements and numbers.	
<u>SMSC</u>	PSHE: Charity, what this means by helping others.		PSHE: Charity, what this means by helping others.		PSHE: Charity, what this means by helping others.	
	RE: Learning about the Christianity celebration of Christmas.		RE: Learning about the Christianity celebration of Christmas.		RE: Learning about the Christianity celebration of Christmas.	

Year 4	<u>Autumn 1</u>	<u>Autumn 2</u>	<u>Spring 1</u>	<u>Spring 2</u>	<u>Summer</u>	<u>Summer 2</u>	
Areas of Study	Moving toys/machines (cams)		Storybooks, pop-up books with moving parts Food Technology – Egyptian spices/stew		Money containers – sewing, making wallets/purse		
<u>Literacy Focus</u> <u>Numeracy Focus</u>	Literacy: To be able to write instructions in cooking or making a design. Numeracy: Maths using measurements and numbers.		Literacy: To be able to write instructions in cooking or making a design. Numeracy: Maths using measurements and numbers.		Literacy: To be able to write instructions in cooking or making a design. Numeracy: Maths using measurements and numbers.		
<u>SMSC</u>	PSHE: Charity, what this m To understand about differe			means by helping others.	PSHE: Charity, what this means by helping others. To understand about different cultures and traditions.		
<u>Year 5</u>	<u>Autumn 1</u>	<u>Autumn 2</u>	<u>Spring 1</u>	<u>Spring 2</u>	<u>Summer 1</u>	<u>Summer 2</u>	
Areas of Study	Biscuits for Charity Story scene in a shoe box		Viking long boats Shield designs		We are Lighting designers Create moving robots-enter commands & use sensors-		
<u>Literacy Focus</u> <u>Numeracy Focus</u>	Literacy: To be able to write instructions in cooking or making a design. Numeracy: Maths using measurements and numbers.		Literacy: To be able to write instructions in cooking or making a design. Numeracy: Maths using measurements and numbers.		Literacy: To be able to write instructions in cooking or making a design. Numeracy: Maths using measurements and numbers.		
<u>SMSC</u>	PSHE: Charity, what this m	eans by helping others.	PSHE: Charity, what this means by helping others.		PSHE: Charity, what this means by helping others.		
<u>Year 6</u>	<u>Autumn 1</u>	<u>Autumn 2</u>	<u>Spring 1</u>	<u>Spring 2</u>	<u>Summer 1</u>	<u>Summer 2</u>	
Areas of Study	Re-cap - Electrical circuits using buzzers, switches. Create a moving or light up model		Switched on Unit 6 We are pop up cafe designers		Food technology-create a dish using example of rations from WW2		
Literacy Focus Numeracy Focus	<b>Literacy:</b> To be able to write instructions in cooking or making a design. <b>Numeracy:</b> Maths using measurements and numbers.		Literacy: To be able to write instructions in cooking or making a design. Numeracy: Maths using measurements and numbers.		Literacy: To be able to write instructions in cooking or making a design. Numeracy: Maths using measurements and numbers.		
<u>SMSC</u>	Art: creative outlet and expressive interest. PSHE: Charity, what this means by helping others.		Art: creative outlet and expressive interest. PSHE: Charity, what this means by helping others.		Art: creative outlet and expressive interest. PSHE: Charity, what this means by helping others.		

<u>Year 7</u>	<u>Autumn 1</u>	<u>Autumn 2</u>	<u>Easter 1</u>	<u>Easter 2</u>	<u>Summer 1</u>	<u>Summer 2</u>
Areas of Study	Introduction to the different materials. Introduction to designing Key rack fobs. Development of materials knowledge	Introduction to workshop safety Using tools and machinery Manufacturing Key rack and fobs. Development of practical skills	Torch Project Introduction to Electronic components. Development of Basic component knowledge	Using components in a circuit supported soldering, manufacture of torch. Development of Soldering technique	Development of design skills Desk Tidy project Research QS and Product analysis skills	Introduction to CAD/CAM manufacture of desk tidy Use of 2D design tools to profile bitmap and raster and cut features
Literacy Focus Numeracy Focus	Keywords material focussed Measurement and accuracy	Keywords tools and equipment Measurement and accuracy	Keywords electronic components Resistor Calculations	Keywords Measurement of torch casing	Analysis and evaluation techniques Graphical representation of data	Final evaluation critical thinking skills Accuracy and measure using CAD
<u>SMSC</u>	Experience opportunities for creativity Opportunities to be inquisitive	Experience opportunities for creativity Encouraging pupils to work co- operatively Developing individual self evaluation	Experience opportunities for creativity Develop an understanding of others Opportunities to be inquisitive Providing links with the wider community and the world of work Openness to new ideas and to modify thinking to accommodate them	Experience opportunities for creativity Encouraging pupils to work co-operatively Developing individual self evaluation	Experience opportunities for creativity Develop an understanding of others Opportunities to be inquisitive Openness to new ideas and to modify thinking to accommodate them	Experience opportunities for creativity Encouraging pupils to work co-operatively Developing individual self evaluation
<u>Year 8</u>	<u>Autumn 1</u>	<u>Autumn 2</u>	<u>Easter 1</u>	Easter 2	<u>Summer 1</u>	<u>Summer 2</u>
Areas of Study	Mobile phone project Using research findings Further development of Research skills QS, Product analysis, Future tech and historical change	Development of design skills and use of CAD software. Detailed use of CAD 2D design Prodesktop and Graphic software for GUI	Night Light Project Energy sources. Detailed understanding of components and review of energy sources. Basic sustainability	Using components in a circuit, developing independent soldering, manufacture of Nightlight including CAD/CAM Development of independent CAD skills and soldering skills	Trophy Project Design Skills Development independent Design Skills	Trophy Project Manufacturing Skills Development Practical Skills use of CAM independently
Literacy Focus Numeracy Focus	Research methods, Evaluations Graphs and statistics	Labelling and descriptive text Measurement and accuracy	Extended writing keywords for energy and sustainability Estimating	Keywords Identifying resistors codes Use of grids for CAD	Evaluation and analysis Costing materials	Practical log Accuracy and Measure
<u>SMSC</u>	Experience opportunities for creativity Develop an understanding of others Opportunities to be inquisitive Providing links with the wider community and the world of work Openness to new ideas and to modify thinking to accommodate them	Experience opportunities for creativity Encouraging pupils to work co- operatively Providing links with the wider community and the world of work Developing individual self evaluation	Experience opportunities for creativity Develop an understanding of others Opportunities to be inquisitive Openness to new ideas and to modify thinking to accommodate them	Experience opportunities for creativity Encouraging pupils to work co-operatively Developing individual self evaluation	Experience opportunities for creativity Develop an understanding of others Opportunities to be inquisitive Providing links with the wider community and the world of work Openness to new ideas and to modify thinking to accommodate them	Experience opportunities for creativity Encouraging pupils to work co-operatively Developing individual self evaluation

<u>Year 9</u>	<u>Autumn 1</u>	<u>Autumn 2</u>	<u>Easter 1</u>	Easter 2	<u>Sumr</u>	<u>ner 1</u>	<u>Summer 2</u>
Areas of Study	Clock Project Develop independence range of sources QS, Product analysis, historical change.	Clock Project Manufacturing including CAM, use of laser cutter and marking out hand skills versus CAD	MP3 or Board Game Project Electronics project component theory and design.	MP3 or Board Game Project Electronics project Manufacturing, including case/ packaging design		Mechanical systems	
<u>Literacy Focus</u> Numeracy Focus	Research methods, Evaluations Graphs and statistics	Advertising work descriptive language Measurement and Accuracy Work with geometry	Keywords electronic components Resistor Calculations	Keywords and analysis skills Measurement and accuracy		Keywords Mechanical movement Calculations and Cam movements geometry	
<u>SMSC</u>	Experience opportunities for creativity Develop an understanding of others Opportunities to be inquisitive Openness to new ideas and to modify thinking to accommodate them	Experience opportunities for creativity Encouraging pupils to work co- operatively Developing individual self evaluation	Experience opportunities for creativity Encouraging pupils to work co-operatively Developing individual self evaluation	Encouraging pupils to work co	perience opportunities for creativity acouraging pupils to work co-operatively eveloping individual self evaluation Develop an understandir Opportunities to be inqu		_

<u>Year 10</u>	<u>Autumn 1</u>	<u>Autumn 2</u>	Easter 1	<u>Easter 2</u>	<u>Summer 1</u>	<u>Summer 2</u>
Areas of Study	Working with Wood Bird Box Project	Working with Wood Bird Box Project completion Working in Metal Tea Light Candle Holder	Working in Metal Tea Light Candle Holder completion Electronics Project Air Freshener	Electronics Project Air Freshener completion	Understanding materials properties and uses	Introduction to NEA on release of themes Developing design brief and analysis of task research design eras and materials
<u>Literacy</u> <u>Focus</u> <u>Numeracy</u> <u>Focus</u>	Work Diary Accuracy and Measurement	Work Diary Accuracy and Measurement	Work Diary and Keywords Accuracy and Measurement	Work Diary Accuracy and Measurement	Keywords Physical properties units of measurement	Research methods, Evaluations Graphs and statistics
<u>SMSC</u>	Social factors: social responsibility. Cultural factors: sensitive to cultural influences. Ethical factors: purchased from ethical sources such as FSC. Working collaboratively Experience opportunities for creativity	Social factors: social responsibility. Cultural factors: sensitive to cultural influences. Ethical factors: purchased from ethical sources such Recycling. Working collaboratively Experience opportunities for creativity	Social factors: social responsibility. Cultural factors: sensitive to cultural influences. Ethical factors: purchased from ethical sources such Bioplastics Working collaboratively Experience opportunities for creativity	Experience opportunities for creativity	Ethical factors and consideration of ecological and social footprint. Social factors: social responsibility. Cultural factors: sensitive to cultural influences	Ethical factors and consideration of ecological and social footprint. Social factors: social responsibility. Cultural factors: sensitive to cultural influences Experience opportunities for creativity Develop an understanding of others

<u>Year 11</u>	<u>Autumn 1</u>	<u>Autumn 2</u>	Easter 1	Easter 2	<u>Summer 1</u>	Summer 2
Areas of Study	NEA Task Research continuation including product analysis and client research.	NEA Task designing and Evaluation	NEA Task Final designs and Manufacture	NEA Task Manufacturing and final testing/ evaluation	Preparation for exams, past papers, Final Exam	
Literacy Focus Numeracy Focus	Research methods, Evaluations Graphs and statistics	Labelling and descriptive text Measurement and accuracy Drawing and modelling techniques (2D and 3D)	Practical Log Photo diary Activity Accuracy and Measure	Practical Log Photo diary Activity Descriptive writing techniques Accuracy and measure		swer techniques d Graphical challenges
<u>SMSC</u>	Ethical factors and consideration of ecological and social footprint. Respecting people of different faiths and beliefs. Experience opportunities for creativity Develop an understanding of others	Experience opportunities for creativity Develop an understanding of others Ability to use images/icons.	Use of CAD support Sustainability, use of resources Experience opportunities for creativity	Ethical factors and consideration of ecological and social footprint. Respecting people of different faiths and beliefs. Experience opportunities for creativity Develop an understanding of others	Ethical factors and consi social footprint. Respecting people of diff	deration of ecological and rerent faiths and beliefs.