

Design and Technology		Year 5 & 6	
Cycle A	Key:  Design  Make  Evaluate  Food		
Autumn Term Topic Area: Awesome Egyptians	Spring Term Topic Area: Victorians	Summer Term Topic Area: Bridges in Time	
<u>Key skills</u> Develop step by step plans, modifying them as appropriate Clarify ideas through discussion, drawing and modelling Use computer aided design Use a variety of information sources and research to inform their design Finish work to a high standard Measure and mark out accurately Cut and join with accuracy to ensure a good-quality finish to the product Select most appropriate tools and equipment for the task from a wide range Evaluate their own work against given design criteria Consider others views to improve their products	<u>Key skills</u> Modify recipes for a purpose Weigh and measure accurately (time, dry ingredients, liquids) Select and use the most appropriate tools Prepare and cook using a range of cooking techniques	<u>Key skills</u> Through discussion consider criteria and purposes and users of design idea Sketch and model alternative ideas and develop one in depth Propose and adapt a sequence of actions Select most appropriate tools and equipment for the task from a wide range Finish work to a high standard Measure and mark out accurately Use skills in using different tools and equipment safely and accurately e.g. wire cutters, modelling wire etc Look at some mechanical products to see how they function and meet users needs Justify their selected materials and methods of construction Make suggestions how their design and product could be improved	
<u>Knowledge</u> To understand how to construct 3D models/ frames Use previous knowledge to select appropriate structures for a purpose	<u>Knowledge</u> Understand and apply the principles of a healthy and varied diet Understand and apply the rules for basic food hygiene and other safe practices e.g. hazards relating to the use of ovens	<u>Knowledge</u> To understand how to use simple mechanisms e.g. pulleys, levers, cams, gears To understand how to use techniques for reinforcing and strengthening structures	
<u>Contacts/ Visits:</u> Hancock Museum	<u>Contacts/ Visits:</u> Beamish	<u>Contacts/ Visit:</u> Tyne Bridge/ Millennium Bridge	

Design and Technology		Year 5 and 6	
Cycle B	Key:  Design  Make  Evaluate  Food		
Autumn Term Topic Area: British Monarchy	Spring Term Topic Area:	Summer Term Topic Area: World War II	
<u>Key skills</u> Develop step by step plans, modifying them as appropriate Clarify ideas through discussion, drawing and modelling Join fabrics using a variety of stitches to produce 3D textile pieces Select most appropriate materials, tools and techniques Use different but appropriate ways to join materials in textiles work e.g. glue, pins, press studs, Velcro, various stitches, buttons Finish work to a high standard Make suggestions as to how their design and product could be improved Evaluate their product against their design criteria	<u>Key skills</u> Modify recipes for a purpose Weigh and measure accurately (time, dry ingredients, liquids) Select and use the most appropriate tools Prepare and cook using a range of cooking techniques	<u>Key skills</u> Develop and communicate ideas showing an understanding of characteristics and function of their final product Develop step by step plans, modifying them as appropriate Make prototypes Finish work to a high standard Select the most suitable and appropriate tools and equipment for the task from a wide range Investigate how different components, including electrical have been used Justify their selected materials and methods of construction Make suggestions as to how their design and product could be improved Evaluate their product against their design criteria	
<u>Knowledge</u> Know how to do simple stitches to attach materials Evaluate for strengths and weaknesses and implement improvements	<u>Knowledge</u> Know how to apply the principles of a healthy and varied diet Know how to apply the rules for basic food hygiene and other safe practices e.g. hazards relating to the use of ovens	<u>Knowledge - food</u> Understand and use a series circuit with switch, motor, buzzer, bulb etc Know how to incorporate series/ parallel circuits and selected electrical components Evaluate for strengths and weaknesses and implement improvements	
<u>Contacts/ Visits:</u>	<u>Contacts/ Visits:</u>	<u>Contacts/ Visit:</u> Aircraft Museum Discovery Museum	