



Year 5 - Summer

History (Local history)	Geography (UK counties)	Computing (Programming)	Art /DT (Electrical systems)	Science (Properties and changes of materials)	RE (Different religions)
<ul style="list-style-type: none"> •A local history study—a study of an aspect of history or a site dating from a period beyond 1066 this is significant in the locality 	<ul style="list-style-type: none"> •Name and locate the counties and cities of the UK, geographical regions and their key features •use maps, atlases, globes and digital/computer mapping to locate countries and describe features studied •describe and understand key aspects of human geography, including: types of settlement and land use, economic activity including trade links, and the distribution of natural resources including energy, food, minerals and water •Use the eight points of the compass, four and six-figure grid references, symbols and key (including the use of OS maps) to build their knowledge of the UK 	<ul style="list-style-type: none"> •design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts •use sequence, selection, and repetition in programs; work with variables and various forms of input and output •use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs •select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information 	<p>Art:</p> <ul style="list-style-type: none"> •to create sketch books to record their observations and use them to review and revisit ideas •to improve their mastery of art and design techniques, including drawing, painting and sculpture with a range of materials [for example, pencil, charcoal, paint, clay] <p>DT:</p> <ul style="list-style-type: none"> •understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors] •apply their understanding of computing to program, monitor and control their products. 	<ul style="list-style-type: none"> •compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets •know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution •use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating •give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic •demonstrate that dissolving, mixing and changes of state are reversible changes •explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda. 	<ul style="list-style-type: none"> •Why do people use rituals in their lives?
<p>Pupils should be taught:</p>	<p>Pupils should be taught:</p>	<p>Pupils should be taught:</p>	<p>Pupils should be taught:</p>	<p>Pupils should be taught:</p>	<p>Pupils should be taught:</p>
<ul style="list-style-type: none"> ◇Changes in mining and the impact they had on the industry ◇Disasters—local focus. What happened in the Tudhoe Colliery mining disaster ◇Art week—Norman Cornish. What it was that made his work so iconic and different ◇Bobby Shafto—local politician, local MP visit. Who Bobby Shafto was and why he was a key figure. ◇Key aspects of the history of Spennymoor and why it was a crucial piece of land before it was a town ◇DLI—Arthur Corner—Victoria Cross. How Arthur Corner earned his Victoria Cross ◇Pals battalions. Who the Pals battalions were and what they did locally 	<ul style="list-style-type: none"> ◇UK Counties—why are they different? ◇Labour market information based on counties—how did people move to cities and why? ◇changes in Tudhoe over time—look at changes on maps - computing mapping ◇Through visits to local sights—are there any sights locally that are different? ◇Where the railway line was and why. Map the route of the railway through Tudhoe. ◇To plot an efficient route using OS maps—how can we make sure our route is the most efficient? ◇DT week—structures. How can we make the strongest structure? Focus on local and famous buildings 	<ul style="list-style-type: none"> ◇To explore scratch maze to make a basic maze game ◇To add obstacles into a scratch maze ◇To play your game and improve it. Discuss how it can be improved with others ◇To write an algorithm to make a programmable robot move ◇To write a more complex algorithm to make a programmable robot follow a set journey from A to B. ◇To program the robot to carry out of different physical task (e.g. take a photo, play an instrument, etc.) 	<p>Art—make an Islamic festival feast</p> <ul style="list-style-type: none"> ◇To sketch your festival food using accurate sketching skills. ◇To use Modroc to create 3D representations of food ◇To use paint and finishing details to complete model food ◇To practise artwork on cloth. ◇To design a class picnic on cloth and paint or colour the food items using different materials. <p>Art—how does the sculpture balance? : To understand the different ways a sculpture balances and to create a "safe" balance sculpture</p> <ul style="list-style-type: none"> ◇To identify different ways that the sculpture could balance and make it more risky. ◇To add different balancing tools to your sculpture designs and think of ways to make them stand up ◇To experiment with different heights and widths of bases <p>DT— Electrical systems: Understand how electricity is used in modern designs—LEDs, radars, sensors</p> <ul style="list-style-type: none"> ◇Design an alarm that would need electricity—car alarms or burglar alarm ◇Design simple circuit for an alarm. ◇Test your design—observe any faults and make improvements. 	<ul style="list-style-type: none"> ◇To compare and group different materials based on their properties. ◇Materials for a purpose—experiment which material would be the best for a roof. ◇About the process of dissolving—observe a solution and write any observations ◇To study the amount of a solid that can dissolve in water using sugar, salt and pepper, and find out how to get dissolved substances back ◇To study water in the different states and how it changes (ice, water, steam) ◇The effects of sieving and use a sieve to sort a mixture ◇About irreversible change—explain what happens when toast is made, iron rusts, a cake is baked or popcorn popped ◇To find which material would make the best switch in a circuit. Identifying which are conductors and which are not. ◇About inventions of new materials—Spencer Silver 	<ul style="list-style-type: none"> ◇The meaning of the word 'ritual' ◇Key facts and elements of : <ul style="list-style-type: none"> -Wudu, the Islamic ritual of washing/purification -Puja, the Hindu prayer ritual -Meditation, the Buddhist ritual of calming and illuminating the mind -Penance, the Christian ritual of confessing and forgiveness -Epiphany, the Christian celebration and its rituals -Baby naming ceremony (zeved habat, brita, simchat bat), the Jewish ceremony performed when a new baby is born ◇How we use rituals in our own lives.
<p><u>Language</u></p> <p>Politics, Victoria Cross, Heritage, Battalions, historical changes,</p>	<p><u>Language</u></p> <p>Counties, Ordnance Survey, George Stephenson, Compasses</p>	<p><u>Language</u></p> <p>Algorithm, purpose, design, debugging, design, program, technology, direction</p>	<p><u>Language</u></p> <p>Media, materials, sketching, water colour</p>	<p><u>Language</u></p> <p>Experiment, materials, solids, liquids, gasses, dissolve, freeze, sieve, irreversible</p>	<p><u>Language</u></p> <p>Wudu, puja, meditate, penance, Epiphany, zeved habat, brita, simchat bat, ritual</p>