Year 6 - Elder and Oak – Autumn Curriculum Overview

'Each and Every Child' ... EXCELLENCE - TRUST - WISDOM - FRIENDSHIP - ENDURANCE

Science	History	Geography
Unit: Separating Mixtures • Know that mixtures and pure substances are formed of different particle structures, including solids, liquids and gasses • Know the difference between a solution, solvent, solute and identify substances that are soluble and insoluble • Know how materials and solutions can be separated (filtration, evaporation, sieving and magnetism) • Know how to explain reversible and irreversible changes **Unit: Electricity** • Know that each component in a circuit can be represented by a recognised symbol • Know the difference between series and parallel circuits • Know that mains electricity is generated by power stations and provides energy for many home appliances • Know the difference between renewable and non-renewable energy **Energy** • Know that energy is needed by living and nonliving things and that I can be transferred but never used up • Know that there are different types of energy stores and that resources for these stores can be used up • Know that energy is transferred in a food chain • Know what the energy store is within a circuit and how this energy is then transferred and changed by devices. **Unit: Evolution** • Know that there are different reasons why variation occurs between species and that they can sometimes be advantageous • Know that natural selection occurs when advantageous traits are passed on to the next	**Unit: World War Two** • Know how life changed during WWII. • Know that women's roles changed significantly during WWII. • Know that soldiers from across the British Empire fought during WWII. • Know that evacuation had an impact on many during WWII. • Know that the role of nurses changed significantly during WWII. • Know how experiences differed during WWII.	**Unit: Natural Resources** • Know some natural resources and how they can be used. • Know renewable and non-renewable energy sources and the difference between them. • Know different sources of food and why production can be harmful to the planet. • Know what economic minerals are, explain where they can be found and how we use them. • Know the many uses of wood and describe locations where it is grown. • Know why water is a precious resource and identify some of the threats to its availability and distribution. • Know the processes involved in commercial bread making.

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generation and that this can lead to the evolution of a whole species • Know that homo sapiens originated from many parts of Africa • Know that fossils provide evidence of evolution • Know some key scientists who contributed to the development of evolutionary biology		
Computing	**Art and DT**	**Religious Education**
Unit: Video Editing • **Video Editing:** • **Know video as moving pictures combined with audio** • **Know that video can be** • **captured automatically** • **Know the features of a good video and how a video can be improved.** • Be able to: • plan a video production using a storyboard • use a recording device • pan left and right, up and down -focus, zoom and compose -locate a video captured on a device • select a section of a video and apply effects, delete sections, crop and split sections. . **Sharing Information** Know that computers can be part of a system in an electronic device and can be connected together to form systems. Know input, output and process in larger computer systems and how information is transferred using agreed protocols. Know that data is transferred in packets Know the role of computer systems in our lives and that connection between computers allow us to access shared stored files.	**Art Unit: WW2 Sculpting - Henry Moore** • Name sketching techniques (eg. contouring, stippling, scumbling, linear hatching) • Know the effect of light on a shape/form from different directions. • Know the concept of perspective, foreground & background • To know that perspective allows artists to portray form in their artwork. • Know that tone can affect the ability to create form • Know how to combine materials and processes to design and make 3D form • (wire armature and Modroc) • Convey a message through their sculpture. • Uses directional shading with confidence to create form in a drawing. • Experiment to create: line, tone, pattern, texture, form, space, colour and shape. • Clearly shows areas of light and shadow in an observational drawing based on one or several light sources. • Create objects in the foreground that appear larger than those in the back and midground. • Shapes and lines are refined independently using controlled lines. • Use recycled, natural and manmade materials to create sculpture. **DT Unit: Food: Seasonal Pies** • Know how to use and select appropriate equipment and utensils to prepare and combine food. • Know how to research the origins of the ingredients needed. • Know the term seasonality and demonstrate through their ingredient choices.	**Unit: Sacred Texts** • Know that Christians believe that the Bible is the word of God told by his inspired followers • Know that there are many translations of the Bible. • KNow that the Bible and other holy books guides believers and affects their daily lives. • Know about the origin and content of holy books from the world faiths I have investigated **Christmas** • KNow that holy scriptures are valued by faith followers because believers say they come from God • Know that the nativity story is found in the Gospels of Matthew and Luke • Know the true meaning of Christmas is a celebration of the birth of Jesus, the Son of God, Messiah. • Know where the nativity fits into God's Big Story

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	• Know how to adapt a recipe and measure ingredients to make a seasonal pie.	