

# Year 4 – Autumn Curriculum Overview

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

Science	History	Geography
<p><b>Unit:</b></p> <p><b>Classifying Organisms</b></p> <ul style="list-style-type: none"> <li>Know what classification is and how we use it</li> <li>Know that we use classification keys to group different types of animals and plants</li> <li>Know what a species is</li> <li>Know dangers posed to animals based on environment change</li> </ul> <p><b>Food and Digestion</b></p> <ul style="list-style-type: none"> <li>- Know how to construct and interpret a food chain that identifies producers, consumers, predators and prey</li> <li>Know the different types of teeth and describe their functions</li> <li>Know the processes of the digestive system and what the function of each organ is</li> </ul>	<p><b>Unit: Roman Empire</b></p> <ul style="list-style-type: none"> <li>Know how the Roman Empire became so successful</li> <li>Know how the Romans invaded Britain.</li> <li>Know how Britain changed under the Romans</li> <li>Know how the Romans organised their towns.</li> <li>Give one reason why the Roman Empire eventually fell.</li> </ul>	<p><b>Unit: Rivers</b></p> <ul style="list-style-type: none"> <li>Know how to locate local rivers and major world rivers on a map (L1)</li> <li>Know what erosion, transportation and disposition is (L2)</li> <li>Know where the Volga River is and how it is used (L3)</li> <li>Know examples of how rivers are used by people (L4)</li> <li>Know how rivers shape the land around them (L5)</li> </ul>
Computing	Art and DT	Religious Education
<p><b>Unit: Photo Editing</b></p> <ul style="list-style-type: none"> <li><b>Photo Editing:</b></li> <li><b>Know how to use a computer to manipulate images and demonstrate this by:</b></li> <li><b>-changing the composition -arranging, cutting and cropping part of an image</b></li> <li><b>-adding effects, changing</b></li> <li><b>colours and applying filters. -making additions by drawing, adding text and adding an element.</b></li> </ul> <p><b>The Internet</b></p> <p><b>Know how networks are connected to each other.</b></p> <p><b>Know how information can be shared via the World Wide Web and that this is part of the internet and explain the benefits and demonstrate how to access it.</b></p> <p><b>Know that the global interconnection of networks is the internet.</b></p>	<p><b>Art Unit: Roman Mosaics</b></p> <p><b>By the end of this unit pupils will know that :</b></p> <ul style="list-style-type: none"> <li>Know that texture can be manipulated via different methods and techniques such as layering, stippling and different types of mark making.</li> <li>Know which pencils they must use based on their properties. Eg. 2B pencil would be appropriate for mid to dark tones</li> <li>Know that cross hatching and hatching can be used to show areas of light and dark. Close and layered lines show darker areas of an object.</li> <li>Know that refining lines, shapes, tonal gradients will help to create a more accurate and realistic outcome (where appropriate).</li> <li>Describe and draw the effect of light (shadows) on a surfaces and objects</li> <li>Know that erasers can be used expressively to create texture in a drawing.</li> </ul>	<p><b>Unit:</b></p> <p><b>Places of Worship</b></p> <ul style="list-style-type: none"> <li>that not all church buildings are the same but have similar features according to denomination.</li> <li>world faiths have different places of worship</li> <li>that a mosque is a place of worship for Muslims.</li> <li>that a gurdwara is a place of worship for Sikhs.</li> <li>that a synagogue is a place of worship for Jews.</li> <li>I can name and compare features of places of worship and give key information about them.</li> </ul> <p><b>Christmas: Symbols of Light</b></p> <ul style="list-style-type: none"> <li>that Christians believe that Jesus is the light of the world.</li> <li>that Christians believe the light of Jesus brings hope in dark places.</li> <li>that Hanukkah is a Jewish festival of light.</li> </ul>

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**Know the need for security on the internet .**

**Know the reliability of content and the consequences if unreliable content.**

- Begin to understand that the composition of an artwork can affect its focal point.
- Identify how to organise facial proportions and demonstrate improved accuracy when drawing
- Know the difference between the terms shade (mixing colours with black) and tone (mixing colours with grey)
- Know how to use tile adhesive effectively to produce a piece of ceramic, mosaic art.
- Define and combine visual and tactile qualities and apply these in their own 3D work.
- Understand that designers and makers sometimes work towards briefs but always bring their own experiences to the project

### **Structures: Biscuit Box**

- Know what a shell structure is.
- Know what a net is and use knowledge of nets of cubes and cuboids and, where appropriate, more complex 3D shapes.
- Know how to construct strong, stiff shell structures.
- Know how to manufacture a shell structure based on their generated design.