

### History

- Ask and address historically valid questions about change, cause, similarity and difference over time.

### Geography

- Locate countries on a map, focussing on Europe and North and South America.
- Name and locate counties and cities in the United Kingdom.
- Discuss key topographical features of places in the United Kingdom (in particular the rivers and mountains)
- Use land patterns to understand physical and human geography of areas.
- Discuss how Geographical patterns change over time.
- Compare the Geographical similarities and differences of North West America (Puget Sound) to that of the United Kingdom.
- Describe and understand the key aspects of the water cycle. I can describe and understand the key aspects of a river and how it is formed
- Describe and understand the key aspects of a mountain and how it is formed.
- Discuss how rivers and mountains influence types of settlement and land use in Puget Sound and Hyde.
- Use maps, atlases, globes and digital mapping to locate rivers and mountains.
- Use a compass, ordnance survey maps and six figure grid references.
- Use fieldwork to observe, measure, record and present the human and physical features in the local area.

### Art & Design

- Study the work of Simon Parkin to create own art work to represent the Geographical landscape of the High Peak.

### Music

- Compose a piece that reflects the journey of a river by using the inter-related dimensions of music to highlight the different parts.
- Appraise a range of high quality music inspired by nature including: Beethoven, Mozart, Wagner and Vivaldi.

## Year 5 Spring Term Topic: Rivers and Mountains



### PE

#### **Gymnastics**

- Develop flexibility, strength, technique, control and balance.

#### **Net and Wall Games**

- Play competitive games, modified where appropriate, and apply basic principles suitable for attacking and defending.

### Computing

#### **Programming**

- Use logical thinking, imagination and creativity to extend a program.
- Refine a procedure using repeat commands to improve a program
- Decompose a problem into smaller parts to design an algorithm for a specific outcome and use this to write a program.
- Use logical reasoning to detect and debug mistakes in a program.
- Talk about how a computer model can provide information about a physical system.

#### **Handling Data**

- Choose an appropriate tool to collect and record data
- Present data in an appropriate way

#### **Multimedia**

- Use text, photo, sound and video editing tools to refine my work
- Select, use and combine the appropriate technology tools to create effects that will have an impact on others
- Use the skills I have already developed to create content using unfamiliar technology

#### **e-Safety**

- Know that anything I post online can be seen, used and may affect others.
- Discuss the importance of choosing an age-appropriate website or game
- Explain the importance of communicating kindly and respectfully
- Explain why I need to protect myself and my friends and the best ways to do this.

<p><u>Science</u></p> <p><b>Earth and Space</b></p> <ul style="list-style-type: none"> <li>• Describe the movement of the Earth, and other planets, relative to the Sun in the solar system</li> <li>• Describe the movement of the Moon relative to the Earth</li> <li>• Describe the Sun, Earth and Moon as approximately spherical bodies</li> <li>• Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.</li> </ul> <p><b>Forces</b></p> <ul style="list-style-type: none"> <li>• Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object</li> <li>• Identify the effects of air resistance, water resistance and friction, that act between moving surfaces</li> <li>• Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect..</li> </ul>	<p><u>Maths</u></p> <p><b>Number/Calculation</b></p> <ul style="list-style-type: none"> <li>• Secure place value to 1,000,000</li> <li>• Use negative whole numbers in context</li> <li>• Use Roman numerals to 1000 (M)</li> <li>• Use standard written methods for all four operations</li> <li>• Confidently add &amp; subtract mentally</li> <li>• Use vocabulary of prime, factor &amp; multiple</li> <li>• Multiply &amp; divide by powers of ten</li> <li>• Use square and cube numbers</li> </ul> <p><b>Geometry &amp; Measures</b></p> <ul style="list-style-type: none"> <li>• Convert between different units</li> <li>• Calculate perimeter of composite shapes &amp; area of rectangles</li> <li>• Estimate volume &amp; capacity</li> <li>• Identify 3-d shapes</li> <li>• Measure &amp; identify angles</li> <li>• Understand regular polygons Reflect &amp; translate shapes</li> </ul> <p><b>Data</b></p> <ul style="list-style-type: none"> <li>• Interpret tables &amp; line graphs</li> <li>• Solve questions about line graphs</li> </ul> <p><b>Fractions</b></p> <ul style="list-style-type: none"> <li>• Compare &amp; order fractions</li> <li>• Add &amp; subtract fractions with common denominators, with mixed numbers</li> <li>• Multiply fractions by units</li> <li>• Write decimals as fractions</li> <li>• Order &amp; round decimal numbers</li> <li>• Link percentages to fractions &amp; decimals</li> </ul>	<p><u>English</u></p> <p><b>Fiction</b></p> <ul style="list-style-type: none"> <li>• Narrative in an unfamiliar setting. Suspense stories- Brother Eagle sister Earth.</li> </ul> <p><b>Non-Fiction</b></p> <ul style="list-style-type: none"> <li>• Discussion- should Minecraft banned?</li> <li>• Persuasion- write to persuade the Government not to take over the land.</li> </ul> <p><b>Poetry</b></p> <ul style="list-style-type: none"> <li>• Cross Curricular.</li> </ul> <p><b>Grammar</b></p> <ul style="list-style-type: none"> <li>• Connectives.</li> <li>• Conjunctions.</li> <li>• Converting nouns and adjectives into verbs.</li> <li>• Punctuation for parenthesis (commas, brackets, dashes)</li> <li>• The role of colons and semi-colons.</li> </ul>	<p><u>RE</u></p> <p><b>Inspirational People</b></p> <ul style="list-style-type: none"> <li>• Know that Lent is a time when we can make small sacrifices to show our love for God and for others</li> <li>• Know the conditions for following Jesus</li> <li>• Take time to reflect on our commitment to following Jesus</li> <li>• Know how Jesus described a true disciple</li> <li>• Know the story of a person who showed great love for others</li> <li>• Know the story of a person who was an inspiration for young people</li> <li>• Identify people today who are an inspiration in their service of others</li> <li>• Reflect on how we can serve others at home, school, locally, globally</li> </ul> <p><b>Reconciliation</b></p> <ul style="list-style-type: none"> <li>• Reflect on what strengthens our friendship with God and with others and what damages it</li> <li>• Reflect on times we have shown or been shown love and forgiveness</li> <li>• Know that sin is a failure to love</li> <li>• Know that when we sin we hurt ourselves and others and damage our relationship with God</li> <li>• Know that God heals our friendship with him through the Sacrament of Reconciliation</li> <li>• Know how we can prepare to receive this sacrament</li> <li>• Know what happens during the Sacrament of Reconciliation</li> <li>• Know that this sacrament enables us to change our behaviour</li> <li>• Have the opportunity to receive the Sacrament of Reconciliation</li> <li>• Perform the Stations of the Cross</li> </ul>
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