

As geographers, we will learn about the geography of our local area and will:

- Ask and answer geographical questions.
- Identify and describe the geographical significance of latitude, longitude, Equator, Northern Hemisphere, Southern Hemisphere, the Tropics of Cancer and Capricorn, Arctic and Antarctic Circle, and time zones.
- Use the eight points of a compass, four-figure grid references, symbols and a key to communicate knowledge of the United Kingdom and the world.
- Describe and understand key aspects of physical and human geography.
- Name and locate the countries of North and South America and identify their main physical and human characteristics.
- Use different types of fieldwork sampling to observe, measure and record the human and physical features in the local area. Record the results in a range of ways.
- Collect and analyse statistics and other information in order to draw clear conclusions about location.
- Describe how locations around the world are changing and explain some of the reasons for change.
- Use a range of geographical resources to give detailed descriptions and opinions of the characteristic features of a location.

As scientists we will be learning about plants and will:

- Identify and describe the functions of different parts of flowering plants: roots, stem, leaves and flowers.
- Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant.
- Investigate the way in which water is transported within plants.
- Explore the role of flowers in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.
- Plan enquiries, including recognising and controlling variables where necessary.
- Use appropriate techniques, apparatus, and materials during fieldwork and laboratory work.
- Present findings in written form, displays and other presentations.

As mathematicians we will:

- Read, write, order and compare numbers up to 10,000,000.
- Use negative numbers in context and calculate intervals across zero.
- Round any whole number to a required degree of accuracy.
- Solve number and practical problems
- Solve multi-step addition and subtraction problems, deciding which operations and methods to use and why.
- Add and subtract whole numbers with more than 4 digits, including using formal written methods.
- Add and subtract numbers mentally with increasingly large numbers.
- Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.
- Divide numbers up to 4 digits by a two-digit number using the formal written method of short division.
- Describe positions on the full coordinate grid.
- Interpret and construct pie charts and line graphs and use these to solve problems.

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As writers we will explore narrative, recount, explanation, information texts and poetry through 'Talk 4 Writing' and will:

- Choose the appropriate form of writing using the main features identified in reading.
- Note, develop and research ideas.
- Plan, draft, write, edit and improve.
- Choose effective grammar and punctuation.
- Use the techniques that authors use to create characters, settings and plots.
- Create vivid images by using alliteration, similes, metaphors and personification.
- Guide the reader by using a range of organisational devices, including a range of connectives.
- Write paragraphs that give the reader a sense of clarity.
- Perform compositions, using appropriate intonation and volume.

As computer scientists, we will become bloggers and will:

- Collaborate with others online on sites approved and moderated by teachers.
- Give examples of the risks of online communities and demonstrate knowledge of how to minimise risk and report problems.
- Understand and demonstrate knowledge that it is illegal to download copyrighted material, including music or games, without express written permission, from the copyright holder.
- Understand the effect of online comments and show responsibility and sensitivity when online.
- Understand how simple networks are set up and used.
- Choose the most suitable applications and devices for the purposes of communication.
- Use many of the advanced features in order to create high quality, professional or efficient communications.

As artists, we will explore, plan and create our own line prints and will:

- Build up layers of colours.
- Create an accurate pattern, showing fine detail.
- Use a range of visual elements to reflect the purpose of the work.

As designers, we will explore, plan and make a moving vehicle and will:

- Develop a range of practical skills to create products.
- Convert rotary motion to linear using cams.
- Ensure products have a high quality finish, using art skills where appropriate

As religious educators, we will be exploring Christianity and Judaism and will:

- Explain how some teachings and beliefs are shared between religions.
- Explain how religious beliefs shape the lives of individuals and communities.
- Explain the practice and lifestyles involved in belonging to a faith community.
- Explain why their own answers to ultimate questions may differ from those of others.
- Express their own values and remain respectful of those with different values.

Global Understanding

Make links between our local area, Harpenden, and other places around the world, particularly South America.

Resilience

Keep investigating and exploring our local area.
Discover new things about our local area.
Appreciate our local area.

First-hand Experiences

Through local visits and visitors.
Fieldwork trip to the River Lea.

Values

Respect
Resilience
Patience
Hope