To broaden children's horizons, we will be making these real-life links: Investigating antibiotics, how they were discovered and where they came from.

Please join us for our celebration of the learning journey on: Monday 16th December 2019 at 2:30pm

### Science

**Investigating mystical mixtures**
- Properties and changes of materials
  - 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 (e.g., burning and the action of acid on bicarbonate of soda).

### Computing

**Presentation skills**
- Select and use appropriate software to achieve a design brief – e.g., brochure, poster, menu etc.
- Use a range of tools to create appropriate layout e.g., tables, borders, word-art etc.
- Add hyperlinks to a document
- Use slide transition and simple animation tools in presentation software

### Music

**Composing a fantasy landscape soundtrack by creating a recipe for music**
- Choose from a wide range of musical vocabulary to accurately describe and appraise music.
- Compose music
  - Thoughtfully select elements for a piece in order to gain a defined effect.
  - Use digital technologies to compose, edit and refine pieces of music.

### PE

**Drugs, alcohol and tobacco education**
- That there are drugs (other than medicines) that are common in everyday life, and why people choose to use them.
- About the effects and risks of drinking alcohol.
- About different patterns of behaviour that are related to drug use.

**Drug, alcohol and tobacco education**
- That medicines can be used to manage conditions related to drug use, such as asthma, and that it is important to follow instructions for their use.

### PSHE

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### Humanities

**To communicate geographically**
- Describe and understand key aspects of: physical geography, including: climate zones, biomes and vegetation belts, rivers, mountains, volcanoes and earthquakes and the water cycle.
- Human geography, including: settlements, land use, economic activity including trade links, and the distribution of natural resources including energy, food, minerals, and water supplies.
- Use the eight points of a compass, four-figure grid references, symbols and a key (that uses standard Ordnance Survey symbols) to communicate knowledge of the United Kingdom and the world.

### Design Technology

**Food – linking with Science and States of matter, specifically focusing on chocolate**
- Prepare ingredients hygienically using appropriate utensils.
- Accurately measure ingredients.
- Follow a recipe.
- Assemble or cook ingredients.
- Design a chocolate bar wrapper.
- Make products by working efficiently.
- Refine work and techniques as work progresses.

### Art & Design

**3D Fantasy Landscapes**
- Develop and imaginatively extend ideas.
- Collect information from sources and present.
- Use qualities of materials to enhance ideas.
- Spot potential in unexpected results.
- Comment on artists work.
- Mix textures and look at tactile qualities.
- Cut materials with precision.
- Show an understanding of qualities of materials.

### RE

**How can artists help us to understand Christmas?**
- To emphasise the importance of Jesus within the Christian faith through reflecting on and comparing different cultural expressions of Christian beliefs about his birth. At Christmas time, Christians celebrate the concept of ‘incarnation’ – God born as a human being in the person of Jesus.

### Mathematics

**Number and place value:**
- Identify and represent numbers using the number line, and use the language of: equal to, more than, less than (fewer), most, least.
- Read and write numbers from 1 to 20 in numerals and words.

**Fractions:**
- To recognise \( \frac{3}{4} \) and \( \frac{1}{4} \) of an object shape or simple quantity.

**Position, direction and movement:**
- Describe whole, half, quarter and three-quarter turns.

**Addition, Subtraction, Multiplication and Division:**
- Solve one-step problems that involve addition, subtraction, multiplication and division using pictorial representations, and missing number problems such as \( 7 = ? – 9 \).

**Properties of shape:**
- To recognise and describe the properties of common shapes.

**Data Handling:**
- Using charts and basic non-standard units of measure.
- Recognise and use language relating to days of the week, weeks, months and years.
- Tell the time to the hour and half past the hour.

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**Article 28:** You have the right to a good quality education.

**Article 29:** Your education should help you develop your talents and abilities.