Year 6 Hartlake

Term 2

Maths

Multiplication and Division

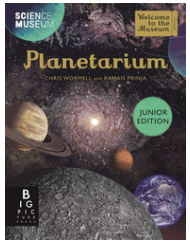
- Common factors and multiples
- Prime, square and cube numbers
- Short and long division
- Solve multi-step problems
- Order of operations

Fractions

- Equivalent fractions
- Compare and order fractions
- Add and subtract fractions
- Mixed numbers

English

Writing to Inform: Non-Chronological Report - Planetarium





- Research and organise information
- Use formal and technical vocabulary
- Write engaging introductions
- Use conjunctions and varied sentence structures
- Use commas accurately to clarify meaning
- Plan, write, edit and publish an informative report

Science

Energy: Light and Reflection

- Understand how light travels in straight lines
- Explain how we see luminous and non-luminous objects
- Investigate reflection using mirrors and periscopes
- Explore how shadows are formed and change size
- Investigate how angles affect reflected light

Science in Action

- Explore famous scientists and their discoveries
- Investigate scientific careers and methods
- Understand how scientific knowledge changes over time
- Recognise the importance of collaboration and peer review

Geography

What Is Life Like in the Alps?

- Locate the Alps and identify the eight countries
- Identify human and physical geographical features
- Explore life in Innsbruck, Austria
- Collect and record geographical data
- Compare the Alps with our local area
- Explain what life is like in the Alps

Phyical Education

Fitness

- Develop speed and stamina
- Improve strength using body-weight exercises
- Develop coordination, agility and balance
- Understand different components of fitness
- Record and evaluate personal fitness improvements
- Demonstrate perseverance and encourage others

Design & Technology

Mechanical Systems: Automata Toys

- Explore cam mechanisms and how they create movement
- Design an automata toy to meet specific criteria
- Measure, cut and assemble components safely
- Select cam profiles to create different movements
- Decorate and finish a working automata toy
- Evaluate the finished product and suggest improvements

Computing

Creating Media: Web Page Creation

- Explore the features of effective websites
- Plan and design web page layouts
- Understand copyright and fair use of images
- Create web pages using text and images
- Link pages using hyperlinks and navigation paths
- Preview, evaluate and improve websites

Online Safety

- Understand positive and respectful online relationships
- Recognise how online behaviour affects reputation
- Make responsible choices when communicating online

Religious Education

Incarnation: Why Do Christians Believe Jesus Was the Messiah?

- Understand the meaning of Messiah and Incarnation
- Explore Jewish expectations of the Messiah
- Examine biblical accounts of Jesus' birth
- Identify evidence Christians use to recognise Jesus as the Messiah
- Explain why Jesus' birth is significant to Christians

PSHE

Celebrating Difference (Jigsaw)

- Recognise and respect individual differences
- Understand prejudice, discrimination and equality
- Explore power, bullying and exclusion
- Develop strategies to challenge bullying
- Celebrate diversity and people's achievements
- Show empathy and kindness towards others

Music

Dynamics, Pitch and Texture (Coast)

- Listen to and describe orchestral music. Explore changes in pitch, dynamics and texture
- Improvise music to represent coastal sounds. Perform and respond to a conductor
- Create graphic scores using symbols and patterns