Year 6: LIGHT
Term: Autumn 2

Text: The Butterfly Lion, Michael Morpurgo

Prime question: Why is light so precious?

Subsidiary questions:
1. What is light?
2. How do we see objects?
3. Why are shadows formed?
4. How does the eye detect light?
5. How is light reflected?
6. How does light travel?
7. What are the different types of light sources?
8. Why is the sun so important to life on earth?
9. In which parts of the world are the highest levels of light pollution

Science (Light)
- Recognise that light appears to travel in straight lines
- Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye
- Explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes
- Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.

Geography
- Name and locate counties and cities of the United Kingdom, geographical regions and their identifying human and physical characteristics, key topographical features (including hills, mountains, coasts and rivers), and land-use patterns; and understand how some of these aspects have changed over time.

History
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Art
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DT (African masks)
- Select from and use a wider range of materials and components, including construction materials and textiles according to their functional properties and aesthetic qualities
- Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work

Music   Percussion instruments
- Sing and play musically with increasing confidence and control. They should develop an understanding of musical composition, organising and manipulating ideas within musical structures and reproducing sounds from aural memory.
- Play and perform in solo and ensemble contexts, using their voices and playing musical instruments with increasing accuracy, fluency, control and expression
- Appreciate and understand a wide range of high-quality live and recorded music drawn from different traditions and from great composers and musicians

Computing - We are project managers
- Use problems by decomposing them into smaller parts.
- Select, use and combine a variety of software (including the internet services) on a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.
- Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour, identify a range of ways to report concerns about content and contact.
- Be discerning in evaluating digital content.
- Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.