



Keston C.E. Primary School - Learning Challenge Topic Web

YEAR 5 – AUTUMN 2018

Science: Will we ever send another human to the moon? Topic: How can we re-discover the wonders of Ancient Egypt?

Earth and Space

- LC1: Could we describe the Earth and the Sun as space cousins?
- LC2: If the Earth and Sun are cousins, is the Moon a young nephew?
- LC3: Can you explain why we have day and night?
- LC4: How can we appreciate the distances between and the sizes of the Sun, Earth and Moon?
- LC5: What can we learn about the solar system and the other planets in it?
- LC6: Who was Neil Armstrong and what would you ask him if you met him?

Hook for Learning:

- Create our own Egyptian art and look at ancient Egyptian artefacts.

Earth and Space

As Scientists can we...?

- Compare the time of day at different places on the Earth through internet links and direct communication.
- Create simple models of the solar system.
- Construct simple shadow clocks and sundials, calibrated to show midday and the start and end of the school day.

As Thinkers can we...?

- Identify key factors when planning a fair test.
- Identify and explain the movement of the Earth relative to the Sun.

As Artists and Designers can we...?

- Think of ideas and plan what to do next?
- Select appropriate tools and materials?
- Join materials together in different ways?
- Use everyday materials to create collages?
- Create prints by rubbing?
- Create pictures in response to other artists work?

As Historians can we...?

- Use dates and historical language in our work?
- Draw a timeline with different time periods outlined which show a range of information, such as, periods of history?
- Make comparisons between historical periods; explaining things that have changed and things which have stayed the same?

As Talkers can we...?

- Talk about our own experiences and link them to our learning.
- Ask questions to gain information?
- Use appropriate language to describe things and explain ideas?

As Musicians can we...?

- Sing and follow the melody?
- Sing accurately at a given pitch?
- Clap a pulse?
- Listen out for particular things when listening to music?

Using Technology can we...?

- use sequence, selection, and repetition in programs; work with variables and various forms of input and output.
- use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.



As Readers and Writers can we...?

- maintain positive attitudes to reading and an understanding of what they read by:
- continuing to read and discuss an increasingly wide range of fiction, poetry, plays, non-fiction and reference books or textbooks
- reading books that are structured in different ways and reading for a range of purposes
- use further prefixes and suffixes and understand the guidance for adding them
- spell some words with 'silent' letters [for example, knight, psalm, solemn]
- continue to distinguish between homophones and other words which are often confused
- identifying the audience for and purpose of the writing, selecting the appropriate form and using other similar writing as models for their own
- in writing narratives, considering how authors have developed characters and settings in what pupils have read, listened to or seen performed

As Mathematicians can we...?

- read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit
- count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000.
- interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0
- round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000.
- solve number problems and practical problems that involve all of the above.
- read Roman numerals to 1,000 (M) and recognise years written in Roman numerals.
- add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).
- add and subtract numbers mentally with increasingly large numbers

In RE we are learning about...

- **GOD** - What does it mean if God is loving and holy?

For Homework we will...

- Read every night – 10-15 minutes including.
- Learn weekly spellings - Friday. For test the following Friday.
- Numeracy tasks (worksheets given Friday to be returned by following Friday.)
- Literacy task – (worksheets given Friday to be returned by following Friday.) linked to learning.

In Foreign Languages we are learning vocabulary relating to...

- Verbs