Year 5 Autumn 1

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**RE**

**Hinduism**

Pupils will learn about Hindu gods including Brahman, Vishnu and Shiva. Pupils will learn stories of the gods and interpret modern day teachings.

**Christianity**

Pupils will learn about the Nativity

**Art and Design**

**Georgia O’Keeffe**

Pupils will learn and practice brush techniques using watercolours.

Pupils will experiment with mixing colours to replicate colours that they see.

NC links

• Become proficient in painting

• Know about great artists

**PE**

**Swimming/Dance**

**Children will:**

**•Swim competently, confidently and proficiently over a distance of at least 25 metres**

**•Use a range of strokes effectively [for example, front crawl, backstroke and breaststroke]**

**• Perform safe self-rescue in different water-based situations**

**•Develop flexibility, strength, technique, control and balance**

**•Perform dances using a range of movement patterns**

**•Compare performances with previous ones and demonstrate improvement to achieve their personal best**

**PSHE**

**Being Me in My World**

Pupils will look towards new challenges positively and learn how to set personal goals. They will understand their rights and responsibilities as British citizens and make choices about their behaviour by understanding rewards and consequences.

**Celebrating Difference**

Pupils will learn how cultural differences can sometimes cause conflict. They will be able to explain the differences between direct and indirect types of bullying and compare their lives with others in the developing world.

**Music**

Pupils will explore music through drumming by playing as an ensemble. They will learn rhythms and parts of compositions by recalling from aural memory. Pupils will play instruments with increased accuracy by building on their techniques from previous years.

**Computing**

Decipher code and translate to decimal – Pupils will learn how the binary system of code is used and be able to write messages using this.

Create, scan and explain what QR codes are and how they can be used - Pupils will use QR codes within the curriculum and understand how they can be used in the wider world.

**Geography**

**The Amazon**

Pupils will find out about the Amazon region of

South America, considering what it is like to live in the region, as well as how it is being damaged and how it can be protected.

NC links

• Extend their knowledge and understanding beyond their local area to include South America

• Develop their use of geographical knowledge, understanding and skills to enhance their locational and place knowledge

• Understand geographical similarities and differences through the study of human and physical geography of a region in South America

• Describe and understand key aspects of physical and human geography

**Science**

**Living things and their habitats / Animals including humans**

Pupils will learn about life cycles of various species – including mammals, amphibians and birds. They will also be able to describe the different reproduction processes of plants.

NC links

* Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird.
* Describe the life process of reproduction in some plants and animals

Pupils will look at and describe the changes as humans develop to old age. Pupils will develop a timeline to indicate stages in the growth and development of humans and learn about some of the changes experienced in puberty.

NC links:

* Describe the changes as humans develop into old age.

**Design and Technology**

**Textiles**

Pupils will investigate fabrics and other materials. They will learn about different types of stiches to join and to decorate. Pupils will design, evaluate and make their own pencil cases by making amendments as necessary.

NC links:

• design purposeful, functional, appealing products

• select from and use a wide range of materials

•evaluate their ideas against ideas and products

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**Mathematics**

**Number and place value**

Pupils should be taught to:

* 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 through zero
* round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000
* solve number problems and practical problems that involve all of the above
* read Roman numerals to 1000 (M) and recognise years written in Roman numerals.

**Addition and subtraction; Multiplication and division**

Pupils should be taught to:

* 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
* use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy
* solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.

Pupils should be taught to:

* identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.
* solve problems involving multiplication and division where larger numbers are used by decomposing them into their factors
* know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers
* establish whether a number up to 100 is prime and recall prime numbers up to 19
* multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers
* multiply and divide numbers mentally drawing upon known facts
* divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context
* multiply and divide whole numbers and those involving decimals by 10, 100 and 1000
* recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)
* solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign
* solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.

**English**

This half term, our Power of Reading books are The Tine Forest by Helen Ward (2weeks - poetry) and Clockwork by Phillip Pullman.

**NC links**

**Reading**

* Continuing to read and discuss an increasingly wide range of fiction, poetry and non-fiction books
* Increasing familiarity with a wide range of books including myths, legends and traditional stories
* Making comparisons within and across books
* Checking the book makes sense to them by discussing their understanding
* Predicting what might happen from details stated and implied
* Participate in discussions about books that are read to them, building on their own and others’ ideas and challenging views

**Writing**

* **Spelling** - use prefixes and suffixes; distinguish between homophones; use dictionaries to check the spelling and meaning of words; use a thesaurus
* **Handwriting and presentation** – write legibly and with increasing speed by deciding whether or not to join specific letters
* **Composition** – plan writing by: identifying the audience and purpose for writing; noting and developing ideas; considering how authors have developed characters and settings. – draft and write by: in narratives, describing settings, characters and atmosphere; using further organisational and presentation devices to structure text and to guide the reader. – evaluate and edit by: assessing the effectiveness of their own and others’ writing; proposing changes; proof read for spelling and punctuation errors.

**Grammar, Vocabulary and punctuation**

Work on different word classes – nouns, adjectives, verbs, adverbs, prepositions, determiners

* Ensure the consistent and correct use of tense throughout a piece of writing
* Ensure correct subject and verb agreement when using singular and plural
* Using commas to clarify meaning or avoid ambiguity
* Punctuating bullet points clearly