Cleves School Curriculum Map
Year 5 – Spring Term 2022-23
SPACE

Maths

The expectation is that children will begin to be able to achieve these objectives with some support.

- **Multiplication and Division - 2 weeks wb 4/1**
- 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
- Continue to use the distributive law to partition numbers when multiplying them
- Divide numbers up to 4 digits by a one-digit number using formal written method of short division and interpret remainders appropriately for the context
- Check answers to calculations and to multiplication and division calculations using the inverse

Fractions - 4 weeks wb 23/1

- Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths
- Compare and order fractions whose denominators are all multiples of the same number
- Add and subtract fractions with the same denominator and denominators that are multiples of the same number, including calculations > 1
- Recognise mixed numbers and improper fractions and convert from one form to the other
- Write mathematical statements > 1 as a mixed number
- Continue to apply their knowledge of multiplication table facts to find equivalent fractions
- Write percentages as a fraction with denominator hundred, and as a decimal
- Know percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those with a denominator of a multiple of 10 or 25
- Solve problems which require knowing key percentage and decimal equivalents
- Recognise the per cent symbol and understand that per cent relates to "number of parts per hundred"
- Compare and order fractions whose denominators are all multiples of the same number

Decimals and Percentages - 3 weeks wb 20/2

- Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000
- Read and write decimal numbers as fractions
- Relate thousandths to decimal equivalents
- Round decimals with two decimal places to the nearest whole number and to one decimal place
- Read, write, order and compare numbers with up to three decimal places
- Recognise the per cent symbol and understand that per cent relates to "number of parts per hundred"
- Write percentages as a fraction with denominator hundred, and as a decimal
- Know percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those with a denominator of a multiple of 10 or 25
- Solve problems which require knowing key percentage and decimal equivalents

Properties of Shape (Angles and Polygons) - 3 weeks wb 13/3

- Draw given angles, and measure them in degrees and draw shapes with sides measured to the nearest millimeter
- Use conventional markings for parallel lines and right angles
- Distinguish between regular and irregular polygons based on reasoning about equal sides and angles
- Use the term diagonal

- Identify angles at a point and one whole turn, angles at a point on a straight line and ½ a turn and other multiples of 90º
- Estimate and compare acute, obtuse and reflex angles
- Use the properties of rectangles to deduce related facts and find missing lengths and angles

Literacy

Rollercoaster Poetry - Forms of poetry; figurative language; poetic devices

Firework Maker's Daughter - An adventure based on the book by Phillip Pullman

Report (Video Voice over) - Information and human interest from the Apollo 11 Moon Landing Expedition

The Lost Thing - An science fiction narrative inspired by the book by Shaun Tan

Balanced Argument - Learning to put forward arguments for and against a statement such as 'Space Exploration is a waste of money'

Computing

Digital Citizenship

Using We are Internet Legends

- Use technology safely, respectfully and responsibly
- Enhance knowledge of Digital Safety and the use of social media.

HTML coding

- Design, write and debug programs that accomplish specific goals
- Use logical reasoning to explain how some simple algorithms
- Detect and correct errors in algorithms and programs

Lego - We - Do

- Designing computer programs that use a range of inputs and outputs, including controlling physical systems (e.g. using tilt and motion sensors);
- Designing efficient solutions to problems by creating algorithms that use the fewest steps
- recognising that different solutions exist for the same problem.

Science

Earth and Space

- Describe the movement of the Earth, and other planets, relative to the Sun in the solar system
- Describe the movement of the Moon relative to the Earth
- Describe the Sun, Earth and Moon as approximately spherical bodies
- Use the idea of Earth's rotation to explain day and night
- To understand the contribution of scientists: Ptolemy, Copernicus, Galileo Galilei, Charlotte Herschel, Maggie Aderin-Pocock

Forces - Gravity

- Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object
- To understand the contribution of scientists: Aristotle, Galileo Galilei, Newton, Einstein
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All Living Things - Reproduction

- Describe the changes as humans develop from birth to old age - human life cycle
- Puberty and conception (in conjunction with PSHE)

Space

The children will study the key events and development of Space exploration. This unit of work is closely linked to our learning within science and literacy.

- Understand key terms associated with space
- Know the names and key differences between the planets of our Solar System
- Understand the historical context and key events of the Space Race between the USA and USSR from 1957-1975
- Know about the key figures associated with the Space Race
- Understand key terms associated with space exploration
- Understand the significance of key events of manned and unmanned space exploration between 1971 - present day
- Know about key British figures associated with space exploration
- Understand how technology helps us learn about space
- Understand how the surface of Mars has been studied
- Understand the challenges of colonising Mars and ways to overcome them

Games and PE/Dance

Gymnastics

Focus on learning and practising accuracy and consistency with:

- actions, body shapes and balances and counterbalances
- choosing shapes, balances and linking movements within a sequence
- creating and adapting sequences of movements, applying their own compositional ideas
- performing movements in canon and unison
- using changes in speed, level and direction

Lacrosse

Focus on learning and practising accurate:

- holding of the lacrosse stick
- sending and receiving the ball
- passing and collecting the ball
- throwing the ball towards a target
- throwing and receiving the ball

This unit also focuses on performing in a team environment - working together on a common goal

Art

Pop Art

Study of the Pop Art movement including the works of Andy Warhol, Keith Haring and others.

- Using digital tools to create art
- Create a whole class installation inspired by Warhol's 32 Campbell Soup Cans
- Use various media to create works inspired by Pop Art artists.

Design Technology

Space Buggies

- Design products that are innovative and appeal to individuals or groups.
- Create a prototype and design more complex mechanical systems in products.
- Select the most appropriate way to join or secure materials within a design.
- Evaluate existing products in relation to their purpose and audience.
- Collect feedback from others to find out how to improve a product.

PSHE

Relationships

- Families and friendships
- Safe relationships
- Respecting ourselves and others
- Relationship and Sex Education (RSE)

Rights and Responsibilities – UNICEF.
Form a Class Charter linked to Rights and Responsibilities.

Anti - Bullying Week

RE

Islam

- Knowand understand the Important beliefs and values of Muslims
- The importance of prayer, the Mosque, the Qu'ran, Pilgrimage and Ramadan to Muslims.

Easter

- Comparing various versions of the Easter story found in the different Gospels

Music Throughout the year the children will be part of a termly rotation that will include; ● Trumpet tuition (Surrey Arts), ● learning how to play the Glockenspiels ● using Charanga.com to explore jazz music and voice This term: 5N & 5M - trumpet tuition (Surrey Arts), 5K & 5C - learning how to play the Glockenspiels 5F & 5G - using Charanga.com to explore jazz music and voice	**French** ● Asking for food ● Making a sandwich ● Opinions about food ● Healthy v unhealthy ● Places in the town ● Giving and asking for directions ● Saying where you're going ● Telling the time ● Easter traditions