WHO WON THE SPACE RACE?

SUMMER 2

READING

We will continue to cover the discrete reading skills through our class book “Hidden Figures” by Margot Lee Shetterly.

- I can give/explain the meaning of **vocabulary** in context
- I can make **inferences** from texts and justify these using evidence.
- I can **predict** what might happen using evidence from the text.
- I can **explain** how information is related in a text and how meaning is enhanced through word choice.
- I can **retrieve** and record information from fiction and non-fiction texts.
- I can **summarise** the main ideas from more than one paragraph.

WRITING

The text type we are learning about this half term is Narrative. This will be based on the short film

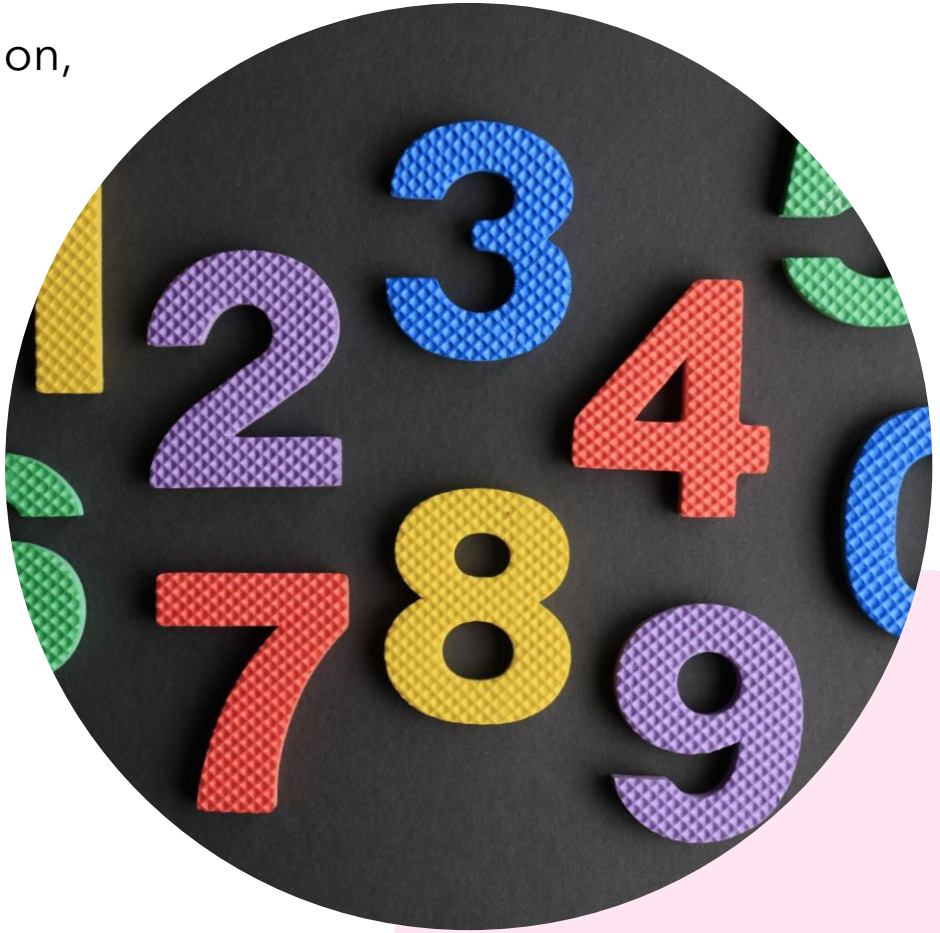
One Small Step by Taiko Studios.

- I can Develop a clear structure for a narrative, including an introduction, build-up, climax, and resolution.
- I can Craft detailed characters and settings that enhance the narrative
- I can Incorporate dialogue and action to develop characters and advance the plo
- I can Use similes, metaphors, and personification to add depth to the narrative
- I can Create a specific atmosphere or mood through descriptive language and setting
- I can Review and improve writing by checking for clarity, coherence, and correctness

MATHS

We will be completing units on Shape, Position and Direction, Decimals and Negative numbers.

- I can calculate angles on a straight line
- I can calculate lengths and angles in shapes
- I can sort regular and irregular polygons and 3d shapes
- I can read and plot coordinates and problem solve
- I can use translations and translations with coordinates
- I can find lines of symmetry
- I can show reflection in horizontal and vertical lines
- I can add and subtract decimals within 1
- I can find complements to 1
- I can add and subtract decimals over 1
- I can add and subtract decimals with the same number of decimal places
- I can add and subtract decimals with different numbers of decimal places and calculate decimal sequences
- I can multiply and divide by 10, 100 and 1000
- I can multiply and divide decimals
- I can understand negative numbers
- I can count through zero in 1s and multiples
- I can compare and order negative numbers and find differences



SCIENCE

We will be learning about how the Sun, the Earth and the Moon move. Our sequence of learning will be:

-

- I can summarize why night and day happen
- I can explain how the Moon and Earth orbit
- I can compare Earth with another planet
- I can explain the effects of water resistance
- I can select key information about other planets

1. **The Earth spins on its axis**, and it takes **24 hours** to complete one full turn
2. The **Earth orbits the Sun** once every **365 days** (1 year). The **Moon orbits the Earth** once every **about 28 days**, which causes the **Moon's phases**.
3. **Earth has liquid water, oxygen, and life.** Mars is **colder, drier**, and has a **thin atmosphere** with mostly carbon dioxide.
4. **Water resistance is a force that slows objects down when they move through water.** Streamlined shapes help reduce this resistance, like how fish or submarines are shaped.
5. **Jupiter is the largest planet** in our solar system and has a **giant red storm** that has been raging for centuries

KIRFS
Key Instant Recall Facts and skills

HISTORY

We will be learning about the Space Race and space travel. Our sequence of learning will be:

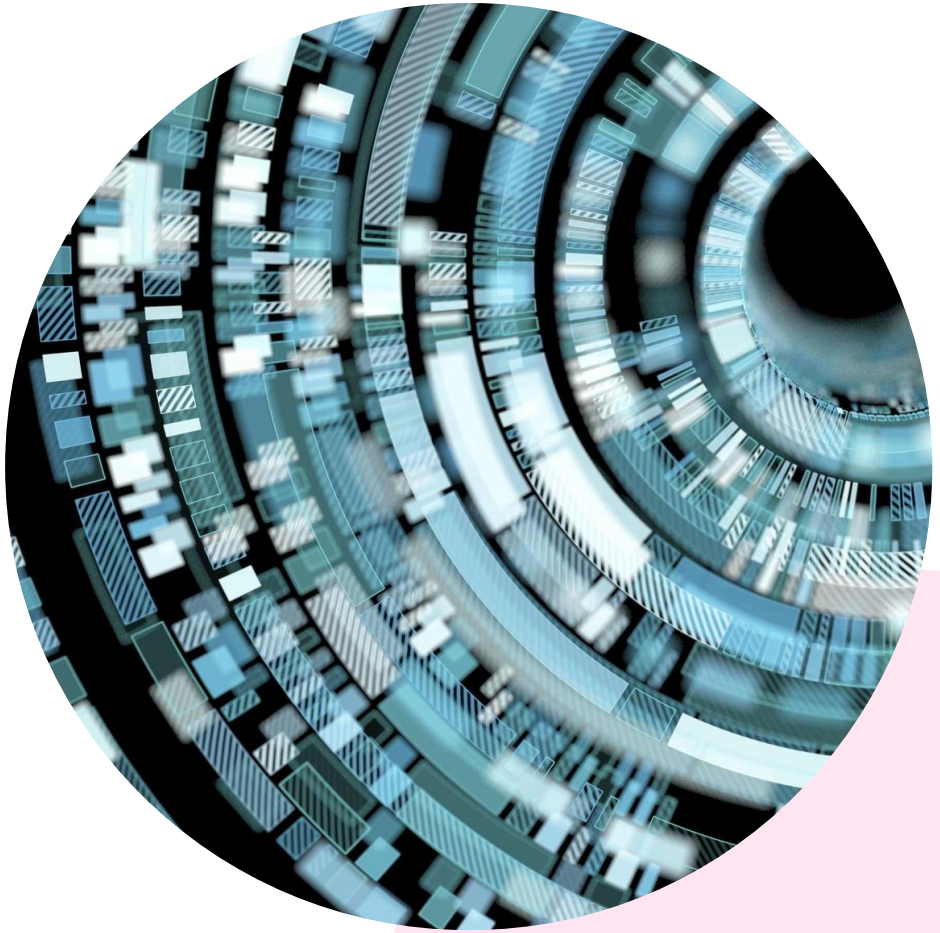
- I can place key Space dates in chronological order
- I can compare the early methods of Space travel.
- I can order the events of the Moon landing.
- I can compare historical evidence and identify reliable sources of data.
- I can use a range of sources to research famous astronauts.
- I can discuss the future of Space exploration.
- I can compare the work of Neil Armstrong and Christopher Columbus.

KIRFS
Key Instant Recall Facts and skills

1. **The Space Race led to significant advancements in technology and science. It spurred developments in satellite communications, computer technology, and materials science**
2. **Soviet cosmonaut Valentina Tereshkova became the first woman to fly in space in 1963**
3. **American astronauts Neil Armstrong and Buzz Aldrin became the first humans to walk on the Moon during NASA's Apollo 11 mission**
4. **The Space Race was a competition between two countries—the United States and the Soviet Union (now Russia**
5. **The fastest human-made object, NASA's Juno spacecraft, travels at 165,000 miles per hour**

COMPUTING

In this unit children use their knowledge of writing programs and using selection to control outcomes to design a quiz in response to a given task and implement it as a program.



- Lesson 1 – Exploring conditions
- Lesson 2 – Selecting Outcomes
- Lesson 3 – Asking Questions
- Lesson 4 – Planning a quiz
- Lesson 5 – Testing a quiz
- Lesson 6 – Evaluating a quiz

PSHE

We will be learning about Relationships – Be Yourself

- I can explain why everyone is unique and understand why this should be celebrated and respected
- I can explain why I should share my own thoughts and feelings and I know how to do this
- I can explore uncomfortable feelings and understand how to manage them.
- I can understand why we sometimes feel shy or nervous and know how to manage these feelings
- I can identify when I might have to make different choices from those around me.

KIRFS
Key Instant Recall Facts and skills

1. **I dial 999 for emergency help.**
2. **Childline telephone is 0800 1111.**
3. **The SMART acronym for internet safety means SAFE, MEETING, ACCEPTING, RELIABLE, TELL.**
4. **The cognitive triangle links thoughts, feelings and behaviours.**
5. **A growth mindset helps to reframe challenges into positive opportunities to develop.**

D T

We will design and make electrical circuits including components such as motors, buzzers and lamps.

We need to understand reasons why visual and auditory systems might be used

- I can design a simple circuit and test working components
- I can improve my designs to incorporate specific elements needed for a purpose, for example a light and fan system for an astronaut to use on a space mission
- I can explore using solar panels instead of cells
- I understand that electricity can be generated in different ways (links to previous knowledge and environmental learning)
- I can share my ideas, designs and plans through sketches and cross-sectional diagrams
- I can research possible improvements
- I can make and test circuits and models and evaluate if they are fit for purpose.

R E

Christianity:

What and why do Christians believe?

What do we call people who believe in God and people who do not believe in God or religion?

- I can explain the terms theist, atheist and agnostic
- I can explain what religious and non-religious people believe about God and where their ideas come from
- I can make connections between Gospel stories
- I can explain how Christians live their lives in their communities
- I can make connections about what people believe about God and how this impacts the choices of how they live their lives
- I can explain why people choose to be agnostic or atheist using my own views on why or whether people believe in God
- I can explain why personal belief influences the choices we make in our own lives

FRENCH

This half-term, we will learn about french traditions and celebrations, for example in France, like (1) The Carnival of Nice, (2) La Fete de Rois, (3) Le Poisson d'avril, (4) La fete nationale francais and (5) Le jour de l'Armistice.
We will use phrases and vocabulary for questioning and information e.g. **Ou se trouve (where do you find) Quand (when) and Pourquoi (why do we)**

- I can ask where, when and why do we celebrate special traditions in France
- I can use words to pose questions
- I can use phrases to answer questions
- I can compare traditional English and French celebrations
- I can research further information about traditions in both England and France to find the reasons why and how they are celebrated

P E

We will be studying Athletics and playing Rounders in our PE lessons each week.

- Run for speed
- Throwing for distance
- Jump for distance
- Mini Olympics
- Final lesson

- Fielding tactics
- Bowling
- Batting – tactics
- Tournament

MUSIC

Our focus this half term is music from India and Pakistan - melody, accompaniment, four-part singing in a round, creating an arrangement.

Our music inspiration is called Kisne banaaya; Kis nay banaayaa; 1, 121; Siren; Hey ho! Nobody home.

- I can compose a simple accompaniment using tuned instruments.
- Create and perform their own class arrangement.
- Sing and play the melody of Kisne banaaya.
- Sing in a 4-part round accompanied with a pitched ostinato

We are going to listen to Swar Riyaz (Bidisha Ghosh) for further inspiration.

Our class book this half-term will be Hidden Figures by Margot Lee Shetterly.

Our Kea Task to assess pupil's learning will be to create 3D models out of playdoh to represent day and night.

We will research information about the Space Race between the USA and Russia

We will be listening to space themed songs such as:
Space Man by Sam Ryder
Go by Public Service Broadcasting
Space Oddity by David Bowie

We will be outside launching are very own rockets.

We will have a visit from Spaceport Cornwall to enrich our learning about The Space Race.

We will we explore the story of four female African American mathematicians at NASA who overcame gender and racial barriers to succeed
in a highly challenging STEM-based career.

We will research how information from manned and unmanned space travel helps us understand our world better