

Autumn Year 5 – OUR EARTH IN SPACE

Herne Junior School
2020-2021

Description/Theme Intent:

The theme will be taught mainly through science. The children will start by learning about our solar system and the importance and uniqueness of Earth within it. This will focus on the movement of the Sun, Moon and Earth relative to each other. We aim to give the children a sense of awe and wonder about our planet and to foster a respect and a sense of responsibility and care for the planet, its environments and its future. We also wish the children to understand and value the power for change which they can have as individuals.

Curriculum Hook:

The children will choose and investigate one of the planets from our Solar System. They will share their discoveries and collate all the information. They will learn that the Earth is unique and special among all the planets in our solar system because it is a 'living planet'. At the start of the theme we will visit the South Downs Planetarium to further their knowledge.

Quality Text / Whole Class Reader:

Cosmic by Frank Cottrell-Boyce (Whole class reading)

Mr Wuffles, The Iron Man, Wonderful Life & Hampshire Book Award Texts



Links to being a British and Global Citizen:

ENVIRONMENT – As a global citizen the children learn about how unique planet Earth is compared to the other planets. This should build up an added respect for the planet.

SMSC, RRR and HARMONY:

RESPECT – learning about the unique beauty of planet Earth and how we should respect its fragile eco-system.

Spiritual (SMSC) – the theme gets children thinking about beyond just our planet and that we are a tiny part of a gigantic universe.

Life Long Learning Skills:

- **Collaborative work:** In the computing curriculum they have to work in a team to create top trump cards.
- **Independent work:** The children research their own individual planet project, where they are encouraged to present it in a unique and creative way.

Outcome/Impact: Outcomes: Theme book based on a variety of research. Design and construct a Mars buggy. Create a gymnastic routine incorporating balance. Produce a Space database.

As readers, writers and performers, we will:

- Look at the quality texts 'The Iron Man' and 'Wonderful Life' and use them to write character descriptions, choosing powerful and appropriate vocabulary and improving sentence structure.
- Write a diary to include a character's feelings through their actions.
- Use Mr Wuffles as a stimulus to learn the rules of speech.
- Play with words to describe the unique environment of planet Earth, through poetry.

As mathematicians, we will:

- Study place value, this includes; Roman numerals; rounding; comparing; ordering; and counting up to one million.
- Practice addition and subtraction, this includes; 4 digit column addition and subtraction; using estimation; the inverse; and multi-step problems.
- Read, interpret and draw line graphs, including; using line graphs to solve problems; read and interpret tables; two way tables; and timetables.
- Practice multiplication and division, including; multiples; factors; common factors; prime nos.; square nos.; cube nos.; multiply and divide by 10,100,1000; and multiples of 10,100,1000.
- Measure and calculate perimeter, including; area of rectangles; and area of compound/irregular shapes;

As scientists, we will:

- Start by learning about the solar system and the movement of the Earth and other planets, relative to the sun.
- Describe the movement of the moon relative to the earth and use the idea of the Earth's rotation to explain night and day.
- Independently study the different planets.
- Identify gravity as a force and how this affects weight.
- Identify forces as pushes or pulls and be able to say if they are balanced or unbalanced.

Celebrating our community

- Local astronomer, the late Patrick Moore help set up a planetarium in Chichester. All the children visit the planetarium and learn about his amazing legacy.