



Driving Question:

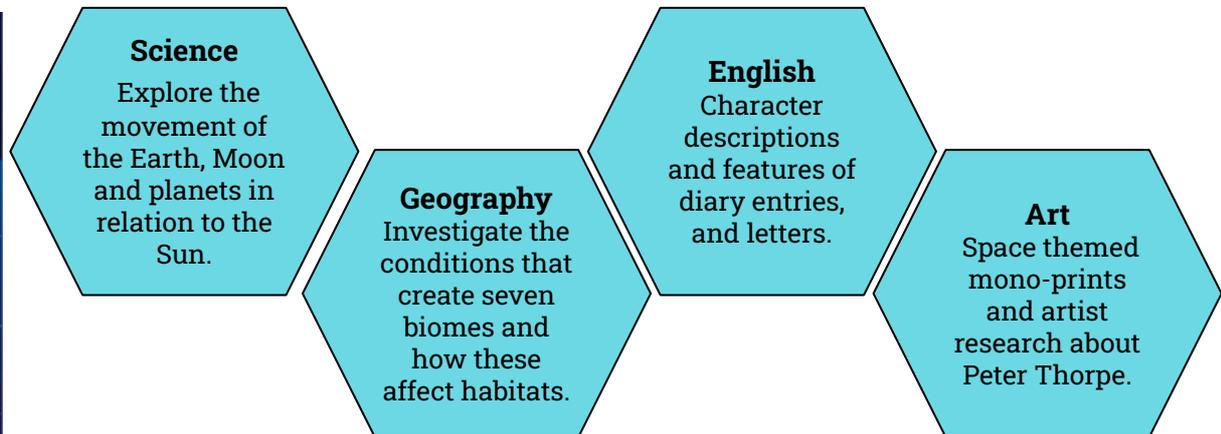
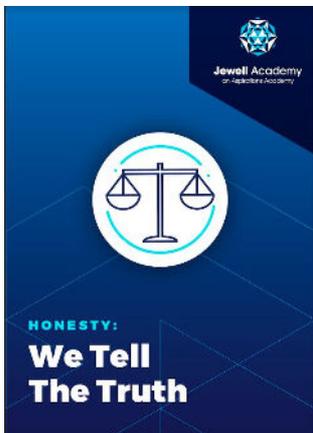
How can we, as astronauts, explore and survive different destinations within the solar system?

Launch:

On Monday 9th January, Year 5 will be visited by a mobile planetarium called the Wonderdome. We get the amazing opportunity to explore the planets in our solar system and discover the technology behind some of NASA's rocket ships.

Overview:

In our new topic, we will be taking on the role of astronauts to learn all about the stars and planets within our Solar System. We will learn about the conditions, environment and features of each planet and will explore how astronauts survive in space. We will also be learning about conditions on our own planet, Earth. We will find out about seven of our major biomes, what environments they create and why.



Vocabulary:

solar system  
biomes  
environment  
conditions  
scale  
constellation  
meteor  
galaxy  
Earth  
lunar  
celestial

Learning conversations to have at home:

**Discuss with your child different types of jobs that are related to space?**

*An astronaut may conduct scientific experiments and maintain the Space Station. But, astronauts aren't the only jobs available that play a vital role. [NASA have many careers](#) which all help us know more about space! NASA employ Computer Engineers (design computer programs, and fix errors), Accountants (keeping on top of budgets -going to space is expensive!) and Engineer Techichans (building and repairing components of the ship) to name a few!*

**Can you name all the planets in our Solar System?**

*'My Very Easy Method Just Speeds Up Naming'  
Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune*

Topic Home learning:

Research and design a 3D model of the Solar System. Your model should show the relative sizes of the Sun, Moon and planets. In addition, write some research which includes fascinating facts about each planet.

**Deadline: Thursday 9th February**



Future Careers:

We will be joined online from a member of Primary Futures to discuss different careers within the field of space and engineering.

Landing:

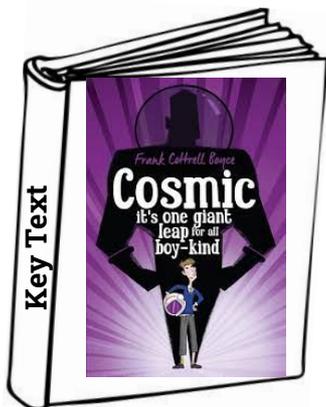
Our topic will culminate in the creation of a design for a life supporting environment in space!

## Reading

This term, our key text is 'Cosmic' by Frank Cottrell Boyce. This thrilling story takes us on the exciting adventure of thirteen year old, Liam Digby who accidentally travels to space!

Which things does Liam lie about and why does he do this?

How does Liam accidentally end up in space?



What is your favourite part of the story?

Which Jewell learning skills do the characters demonstrate?

## English

- ★ Letter writing and diary entries
- ★ Character description
- ★ Direct and indirect speech
- ★ Present tense

### How can you help at home?

- Explore examples of [direct and indirect speech](#) at home and write your own
- Write a character description about yourself

## Maths

- ★ Multiplying 2, 3 and 4 digits by 2 digits and dividing by 1 digit
- ★ Fractions and mixed numbers

### How can you help at home?

- Encourage your child to practice their times tables every day
- Explore fractions at home by [watching these videos](#) and having ago at the quiz

## Science

We are learning about the movement of the [Earth, Moon and planets in relation to the Sun.](#)

## Geography

We are learning about the seven major biomes and will explore their climates and conditions.

## Music

We will be learning the pop ballad, ['Make you feel my love' by Bob Dylan, covered by Adele.](#)

## PSHE

We are learning all about dreams and goals and how we can set personal challenges.

## Art

We are learning about the artist Peter Thorpe and will create our own artwork using mono-printing.

## Computing

We are learning about online safety and online reputations. .

## Design and Technology

Next half term, we are learning about different types of structures.

## Physical Education

We are learning about net and wall games as well as creating our own dance motif.

## French

We are learning how to how to introduce ourselves to new people.

## Religious Education

We will be exploring [Hinduism](#) and finding out all about Brahman.

### Dates for the diary

Monday 9th January: Wonderdome Planetarium visits Jewell Academy.