



# The Sky at Night...



## Entry Task

Children to compare Tim Peake's expedition to the journey in space taken by Valentina Tereshkova. How are they similar or different?

How do we know that the Earth is spherical? What was the significance of Aristotle's observations and how did they prove his theory?

What makes Earth habitable for human life?

How does the Earth's rotation on its axis give us day/night( sun and moon), seasons of the year and weather conditions?

Explore how other planets in our solar system compare to Earth. What are the similarities and differences?

How are time zones linked to the Earth's rotation?

What are the phases of the moon? What does this tell us about the position of Earth?

What other planets are in our solar system? What are their orbits and how are they ordered in proximity to the sun?

How does our solar system fit into the universe as a whole?

What is gravity? What causes gravity and how does the force of gravity change across our solar system? (Scientific Enquiry)

Who uses satellite images and for what reason?

Who were Aristotle, Galileo and Newton? Why were they so significant to our understanding of Earth and our solar system?

How does my shadow change at different times of the day? (scientific enquiry)

Why and how was Katherine Johnson crucial to Space exploration?

How do Rockets take off? (Scientific Enquiry)

## What to revisit?

**Year 3 and 4** — Key aspects of human and physical geography including climate zones, mountain ranges, volcanoes, rivers, continents etc.

**Year 4** — Location of the Equator and the Tropic of Cancer and Tropic of Capricorn

**Year 1 and 2** — Earth's oceans and continents.

**Year 4** — Primary and secondary sources of information.

## Threads

Exploration, expedition, navigation, progress, legacy, significance, orbit

## Big Question

How has our understanding of the Solar system changed over time?

What can satellite images tell us about geography?

Can I navigate satellite images of Cairo and Liverpool and compare them to one another?

How do satellite images of Cairo and Liverpool compare to OS Maps of Cairo and Liverpool?

Can I explore what geographical features can be identified from satellite images? (Cairo)

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## Celebration/Evaluation

Produce a presentation using prior knowledge and further research to showcase learning on space and our solar system

## Curriculum Passport Challenge

Children will explore space through the Wonder Dome

## Key Vocabulary

As a scientist, I will use... planet, satellite, sphere, solar system, eclipse, star, universe, constellation, axis, celestial body, Moon, rotating, lunar, solar, telescope, rotation, dwarf planet, astronomical clocks, shadow clocks, sundials

As a geographer, I will use... location, time zones, equator, characteristics, tropic of Cancer, tropic of Capricorn, physical/human characteristics, satellite images, geographical features

DRIVER SUBJECTS ARE:

SCIENCE & GEOGRAPHY