Space Curriculum Driver	<b>Linked people of study:</b> Neil Armstrong, Galileo, Tim Peake, Yuri Gagann	Trips/Visitors: Space d science	ome, Goonh
/ear 5/6 Summer Term 2021 Topic Question: Can we leave planet earth?	<b>Linked texts:</b> George's Secret Key to the Universe, Her Story (50 women who shook the world), 101 Black Women in STEM, The Mysteries of the Universe.	<b>Topic Composite/Finale:</b> Site <b>Future Learning Link:</b> An The Americas	
	Science	$\setminus$ (	Intent: Child
<b>Intent:</b> Children will know the workings of our sola			
	Skills, and Knowledge Components Focus		• Chaura
<ul> <li>Describe the movement of the Earth and other planets relative to the sun in the solar system</li> <li>Describe the movement of the mean relative to the Earth</li> </ul>			<ul> <li>Shows histori</li> </ul>
<ul> <li>Describe the movement of the moon relative to the Earth</li> <li>Describe the sum Earth and mean as approximately subarial hadias</li> </ul>			• Begin t
• Describe the sun, Earth and moon as approximately spherical bodies			• A deta
<ul> <li>Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky</li> <li>Explain that unsupported objects fall towards the Earth because of the force of analytic acting between the Earth and the falling object</li> </ul>			Sticky Knowle
• Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object		Ject	• I know
<ul> <li>Identify the effects of air resistance, water resistance and friction, that act between moving surfaces</li> <li>Recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect</li> </ul>			• I know
Recognise that some mechanisms including lev	ers, pulleys and gears allow a smaller force to have a greater effect		• I know
Sticky Knowledge:			and Mi
• I know that the Earth rotates (spins) on its a	kis. It does a full rotation once in every 24 hours.		<ul> <li>I know national</li> </ul>
<ul> <li>I know that as the Earth is rotating, it is also not move.</li> </ul>	orbiting (revolving) around the sun. It takes a little more than 365 days to orbit the su	un. The sun does	<ul><li>I know</li><li>I know</li></ul>
• I know that all 8 planets orbit the sun, the further away they are the longer it takes.			(2015)
• I know that daytime occurs when the side of Earth is facing towards the Sun. Night occurs when the side of Earth is facing away from the sun.		om the sun.	<ul> <li>I know 1963).</li> </ul>
• I know that to orbit is to move in a regular, re	peating curved path around another object.		• I know
• I know that to rotate means to spin. E.g. Earth	h rotates on its own axis		<ul> <li>I know galaxie</li> </ul>
• I know that the moon orbits Earth. This takes 28 days. At various times in a month, the Moon appears to be different shapes.			<ul> <li>I know</li> </ul>
• I know that the 8 planets in order from the sun are: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune.			1990 n
• I know that gravity is a force by which Earth	pulls objects towards its centre.		<ul> <li>I know scope.</li> </ul>
• I know that air resistance and water resistance	ce are types of friction.		
• I know that friction, air resistance and water resistance can be helpful or unhelpful in different situations.			<b>Key Vocabular</b> tina Tershkova
• I know why levers, pulleys and gears are useful when lifting.			tion, Edwin Hul
	orbit, solar system, gravity, air resistance, water resistance, friction, levers, pulleys, ge	ears.	Subject Compo historic space
	understanding when holding their 'Space Exploration Site' event presentations.		
<b>Impact:</b> Children will inquisitive about our solar sys	tem and enjoy exploring forces.		Impact: Childr



# History

ldren know some historic space events that have impacted the world.

### Skills, and Knowledge Composite Focus

s some understanding and talks with some clarity about the impact of rical events

to use questions to understand significant events.

tailed study of a particular famous person and their historical legacy.

### ledge:

w that Neil Armstrong was the first man on the moon (1969).

w that Apollo 11 was the first spacecraft to land on the moon (1969).

w that the Apollo 11 astronauts were Neil Armstrong, Buzz Aldrin Aichael Collins (1969).

w that Tim Peake was the first British astronaut to visit the Internal Space Station (2015).

w that Tim Peake spent six months in space (2015-2016).

w that Tim Peake was the first British astronaut to walk in space 5).

ow that Valentine Tershkova was the first woman in space (Vostok 6, ).

w that Yuri Gagann was the first man in space (Vostok 1, 1951).

w that Edwin Hubble used the largest telescope of his time to view ies in 1920.

w that Nasa launched their first space-based optical telescope in named after Hubble.

w that Galileo was the first person to see the moon through a telee.

ary: Neil Armstrong, Buzz Aldrin, Michael Collins, Tim Peake, Valenva, Yuri Gagann, Apolo 11, Vostok 1, Vostok 6, Internation Space Stalubble, Hubble Space Telescope, Galileo.

**posite:** Children will hold 'Space Exploration Site' talking about which e events they have learnt about.

dren will be inquisitive about space exploration and will be inspired by auts.

# Geography

Intent: Children know what our planet's energy and natural sources are and where they come.

## Skills, and Knowledge Components Focus

- Know where energy comes from.
- Know about the water cycle and natural resources (where they come from).

## Sticky Knowledge:

- I know that the water cycle explains the circulation of the Farth's water
- I know that the water cycle is the complete journey that water makes from one place to the other and from one state to the other.
- I know that a cycle is a series of events that repeat in the same order.
- I know that precipitation is the release of water from the sky. It can be a liquid or solid, e.g. ran, sleet, hail and snow.
- I know that evaporation is the process of turning from liquid into vapour.
- I know that transpiration is the evaporation of water from plant leaves.
- I know that when water falls from the clouds as rain, snow, hail or sleet and collects in the oceans, rivers, lakes and streamsthis is known as 'collection'
- I know that there is renewable and non-renewable energy.
- I know that fossil fuels are non-renewable energy.

Key Vocabulary: cycle, water cycle, precipitation, evaporation, transpiration, condensation, collection, energy, renewable, nonrenewable, fossil fuels, source.

Subject Composite: Children will create a water cycle bag which demonstrates their learning. Children can explain to others the process of the water cycle using their experiments.

**Impact:** Children will be aware of the world's energy sources and be mindful of consumption. They will think about their role as a global citizen and the impact they can make to help change energy consumption.

# Computing

Intent: Children will acquire the necessary skills to be able to use a green screen to enhance presentations.

## Skills, and Knowledge Components Focus

- Use digital devices to combine software and present data and information.
- Use technology to collect, analyse, evaluate and present data and digital content
- Create and implement a range of programmes and content to accomplish specific goals.

### Sticky Knowledge:

- I know how to film using a green screen.
- I know how to change my green screen background images.
- I know how to edit my video recording.
- I know how to create a data graph using Microsoft Excel.

Key Vocabulary: green screen, backgrounds, edit, video, recording, images, Microsoft Excel, data, graph

Subject Composite: Children will create an interview-style green screen video report about space travel.

Impact: Children will be enthusiastic and confident in using green screens in the future. They will see themselves as a reporter and understand that this is a job role that could be a possibility when they are older.

Art Intent: Children will use perspective and surrealism in their artwork. Skills, and Knowledge Components Focus Use drawing techniques to introduce perspective. (Drawing from above and below, near/far.) Use oil pastels Use charcoal Begin to build up a portfolio of their work Continue to experiment with the techniques of different artists Use the work of a famous artist as a stimulus for their own work Use other artists work as a basis for critique. Research and develop the techniques of other artists to use in own work. Sticky Knowledge: I know drawing from perspective adds 3D depth. I know that surrealism is a type of art using your imagination. I know that Salvador Dali was a 20th century Spanish surrealism artist.

Key Vocabulary: perspective, surrealism, Salvador Dali, three-dimensional, angles

Subject Composite: Final piece of surrealism art work to display at Space Exploration Site

Impact: Children will be confident to use perspective and surrealism in their future artwork.