



## Year 5 Topic Web – Autumn 1 – 2021

### Stargazers

	What we will be covering in class	Supporting your child's learning at home.
Engage	Children will have the opportunity to learn about Space through fact and fiction. Our journey starts with children finding out about Space by researching a range of books. They will be using a variety of sources to learn about the Solar System and the planets within it.	<p>Spend time with your child researching Space and our Solar System. Can they bring some fascinating facts to share with their class?</p> <p>Develop your scientific knowledge by exploring the Space facts, games and quizzes at:</p> <p><a href="http://www.sciencekids.co.nz/space.html">www.sciencekids.co.nz/space.html</a></p>
Develop	<p>Children will be reading a range of Moon inspired myths and legends, using images of the Moon and their knowledge to create their own Moon-based poems.</p> <p>During this stage of the topic, children will also use a range of sources to find out about the surface of the Moon. They will be creating Moonscapes and charts. They will be investigating Gravity, finding out about Sir Isaac Newton and creating a 'Gravity Rap'. They will be learning about the Space Race, looking at images and listening to popular songs about space. Finally, children will be experts on the moon, writing their own fact-filled report all about it!</p>	<p>Visit the NASA website. Play and explore Space with the astronauts.</p> <p><a href="http://www.nasa.gov">www.nasa.gov</a> Go to NASA audiences - for students</p>
Innovate	<p>Children will undertake a mission.</p> <p>Children must research, design, create and test a prototype before making any changes to ensure they have created a robust rocket ready for launch</p> <p>They will record data collected ready to use as evidence in a presentation to the Ratby UK Space Agency.</p>	<p>Go outside at night, lie back and stargaze! Where can you see stars in your neighbourhood? How does light pollution change what you can see? Download a sky map and search for the stars.</p> <p><a href="http://www.kidsastronomy.com/astroscopymap">www.kidsastronomy.com/astroscopymap</a></p>
Express	Children will use their imaginations to describe and write a full character profile of an alien. They will also be working on a scientific report evaluating the success of their rockets, creating a Visitor Centre to display their hard work.	Please continue to support your child's arithmetic skills by helping them to practise their times tables and number facts.

Maths	Children will continue to develop their knowledge of place value up to 1,000,000. Furthermore, they will develop their arithmetic methods for addition, subtraction, multiplication and division. There will be a huge emphasis on arithmetic skills and children will have many opportunities to improve the speed and accuracy of their calculations, ensuring that they check their answers thoroughly. Children will build on and consolidate their knowledge of their times tables that they learnt so well in Year 4. We will be looking at consolidating and stretching their mental and written methods for addition and subtraction. We will also be working on statistics, creating graphs and charts and looking at answering questions generated from them.		
English	Children will cover poetry and non-chronological reports as well as using their imaginations to describe and write about Space. They will read a variety of non-chronological reports on different aspects of Space and will collect information to write their own report about the Moon. Children will write poetry using the Moon theme and also write an explanation about the different phases of the Moon. In whole class reading, children will read a range of fiction, non-fiction and poetry about Space.		
Science	Children will be finding out about Space and our Solar System and developing their understanding of what is out there, how it differs from our planet and where we fit into the observable universe. Children will learn specific facts, such as how many days it takes for the Moon to orbit the Earth and how night and day are formed?		
Art & Design	Children will use a range of media to create a moon phase chart. They will be creating a moon surface using a variety of materials.	PE	Children will be working on developing their cognitive and ball skills, reaction and response skills and competing in class competitions.
Computing	Children will use various websites for research. They will also be learning about how to stay safe online. They will be introduced to binary codes and spreadsheets and how these can be used to solve problems.	PSHE	Children will be thinking about themselves and others around them. Children will take part in activities to build positive relationships in class and to develop their skills of cooperation.
D & T	Children will learn how to select tools and equipment for a specific task. They will create a rocket for launching into space.	French	In French, children will be re-capping previous skills and knowledge in the topic 'Getting to know you'.
Music	Children will be listening to and discussing space themed music. They will begin to look at the music for Young Voices.	RE	Children will consider the question, 'Why do some people think God exists?'