



The Oratory R.C. Primary and Nursery School

'Shine as to be a light to others'



Medium Term Planning

Year 5

Spring Term

Sparkling Start	Essential Question	Fabulous Finish
<p>Children will visit the National Space Centre in Leicester.</p> <p>Watch 'Cosmic' by Frank Cottrell discussion on BBC Bitesize Ks2</p> <p>After half term Mr Andrew Butler will visit the class and talk about his hobby of astronomy.</p> <p>A travelling planetarium will also come to school-Spring term 2</p>	<p>What would happen to us and our life if it was always night time?</p>	<p>Children will design and make two planetariums and create an exhibition using I.C.T and other technology (chosen by the children) to showcase their learning.</p> <p>Dependent on weather-children will be given an opportunity to carry out a night watch to view the stars using a real telescope</p>
<p>Big Ideas</p>	<p>As READERS we will read 'Cosmic' by Frank Cottrell. A 12 year-old Liam (as the sole responsible adult) ends up in a rocket. Lost in space. With 5 children. We will also read a range of non-fiction texts both from information books and on the internet.</p>	<p>Through Design and Technology children will design and make rocket models. They will make small prototypes in small groups and then go onto make larger scale rockets using carpet insert rolls. We will design and create moon buggies.</p>
	<p>As WRITERS we will write descriptively about setting and characters. We will discuss and evaluate different scenarios in our class novel. We will write letters of advice (shall we travel to space?). Will write discursive texts about Space tourism. We will write instructions about how to travel and survive in space successfully. We will write diary entries and chronological reports all related to space. Through drama we will write creatively and imaginatively. Persuasive writing on should we explore space?</p> <p>We will write play scripts about Aliens landing on earth and perform on our class stage.</p> <p>We will read poetry with Brother Andrew 'High Flight' by J.G. Magee which is linked to 'The Flight of the Challenger'. We will also create space comics linked to artwork/posters/stamps studied whilst learning about space propaganda.</p>	<p>As Historians we will examine the history of space. We will look at the first man on the moon landing-Neil Armstrong. We will research the American/Russian Space Race through space propoganda.</p> <p>The Time of the Telescope: astronomy in ancient civilisations before looking at where and when the telescope was invented and how Galileo used this instrument to give birth to modern astronomy. Explores Apollo 11's mission to the moon by looking at who was involved, what they did and how the mission affected those who were lucky enough to be the first people ever to walk on the moon. We will research technological developments past and presents related to space exploration. Look at some of the different ways in which astronauts and scientists explore space today (such as the Hubble telescope, observatories, space stations, space shuttles and more) and how events from the past have enabled these to happen.</p>
	<p>As MATHEMATICIANS we will investigate place value through addition and subtraction. We will explore co-ordinates and line graphs. We will continue to work on fractions and decimals. We will also solve problems related to perimeter, area and volume. We will take a cross-curricular approach when we carry out: Data handling: Who</p>	<p>As Geographers we will use maps, and digital/computer mapping to locate planets/moons and describe features. We investigate our planet and study the weather related to our seasons. Will carry out moon mapping activities.</p>

	is happy to go into space? Estimating and weighing moon rocks. Measuring depth of moon dust. Days of the week. Time-Moon Watch (Homework)	
	As Physicists we will study the Earth, Sun and moon. We will learn about relative sizes of earth, sun and moon and how they move. Understand night and day. We will investigate skills: make observations, recognise patterns and represent data in graphs Look at how the Earth's tilt and rotation around the sun gives us night, day and seasons, and why some countries are hotter or colder than others Explores the planets in our solar system and investigates their features, such as size, composition, and distance from the sun, number of moons.	As Artists we will create fictional planets and use a variety of different media and techniques to portray a scene from their planet, exploring how colour, tone and texture can be used to create different effects. We will create our own space propaganda posters linked to the 'Space Race'.
	As Theologians we will know and understand what is meant by the term something precious. We will explore the gift of 'Awe and Wonder' and discuss what space can tell us about God. We will refer to the creation story and focus on God's presence in the creation and how the moon, sun and stars are all part of God's Kingdom. We will consider God's greater existence 'as his kingdom will have no end (Daniel 21:2-4) (Revelation 5:5, 6:14) links with space and a greater being.	Through Music we will learn about Holst and his music, listen and respond to his most famous work 'The Planets' and how he uses music to convey the different astrological characteristics of each planet. We will create our own space music using percussion instruments. We will write space music using pictures.
	Through Physical Education the children will take part in outdoor and adventurous activity challenges both individually and as part of a team. Children will choreograph a dance to 'The Planets' by Holst. We will use dance to express movement. We will use editing programmes such as 'Off Liberty' to download music and then use 'audacity' to edit tracks so that they are timed appropriately for our performance.	Through PSHE we will focus on teamwork through looking at survival skills and citizenship. Children will consider how they support each other in their learning and in their everyday lives.
Further Opportunities	Communication:	We will create an effective partnership by providing an open and communicative environment with its wider community, forming a link between the classroom and home, school and the family.
	Readers:	We will use reciprocal teaching skills to clarify, predict, question, summarise and evaluate. We will also infer and make connections/links/comparisons between characters and different texts.
	Writers:	We will be given the opportunity to write up experiments in Science. They will write non-chronological reports/explanatory texts in History and Geography. They will explore a range of genres in R.E and write emails in computing.
	Mathematicians:	We will use mathematics in Science during investigations, in History looking at timelines and sequences of events and in Geography when we look at scales on maps.

Oratory Curriculum Drivers	In our Spiritual and Moral Development	Through Enquiry	Through Emotional Awareness	Through Community / Diversity
	We will: look at the creation story in the Bible and other stories that refer to earth, sun, moon and the stars. We will study the Psalms which make reference to space and we will read extracts from the Revelations, Daniel and Job.	We will: explore our planet and the solar system. We will research technological developments past and presents related to space exploration. Look at some of the different ways in which astronauts and scientists explore space today and how events from the past have enabled these to happen. We will explore the sun, plants and photosynthesis and how without this we would have no life.	We will: develop our teamwork skills and learn to manage different viewpoints and ideas effectively. Whilst working in a team, we will develop our understanding of our strengths and weaknesses as individuals and how to use these when allocating tasks to groups members.	We will: create our own planetariums and invite parents/carers to come and share in our discoveries and learning.
Positive Learning Behaviour / Attitudes	Resilience - Don't Give up!	Wisdom/Right Judgment	Respect/Diversity	
	We will know that whatever the challenge we can overcome it. However difficult we find something we will use higher order thinking skills and the help of our peers to get there in the end.	We will think about the choices we make and the affect these choices have on others. We will pray that the Holy Spirit guides us throughout the year helping us to make the right decisions.	We will recognise and respect the beliefs and practices of others particularly in relation to differing opinions or behaviors. Even when we disagree. We will use the language of critique to put our opinion across in a helpful and kind manner.	



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Medium Term Planning, Weekly Overview Year 5 Spring Term

Sparkling Start		Theme			Fabulous Finish
WEEKS	1	2	3	4	5
Communicators	<ul style="list-style-type: none"> - Understand how to answer questions that require more than a yes/no or single sentence response - Use reciprocal teaching skills to explain the meaning of words, offering alternatives -Use the language of critique with peers to identify strengths in learning and give pointers to move learning forward -Understand how to answer questions that require more than a yes/no or single sentence response 				
Readers	Use reciprocal Teaching Skills to explore class novel 'Cosmic' by Frank Cottrell				
Writers	Eng Writing- Characterisation and Settings related to novel Study 'Cosmic'.	Eng- Newspaper Reports- Alien Invasion	Eng- Persuasive Writing-Should we explore space?		
Mathematicians	Multiplication	Division	Fractions	Fractions	Fractions
Scientists	Earth and our Solar System		Earth, Sun and Moon-record data using models		<ul style="list-style-type: none"> -Balloon Rocket Launch -Photosynthesis – oxygen/space
Theologians	<u>Creation</u> God's purpose in creation (Genesis 1:16) God's presence in creation (Psalm 147:4) God's Glory in creation (Sirach 43:9-12)		<u>Creation</u> Degrees of perfection creation (1 Corinthians 15:41) Responding to creation in praise (Psalm 136:1-9)		<u>Awe and Wonder</u> Worshipping the Creator (Deuteronomy 4:19) Humility in the face of Creation (Psalm 8:3)
Computing	<ul style="list-style-type: none"> -How people use ICT professionally in their jobs and for leisure purposes -How to conduct a successful internet search 				
Geographers	Moon Mapping				Space missions to other planets. Look at atmosphere of each planets

Historians	Real life space exploration Man on The moon	Man on The moon		Mission to Mars
Musicians	<u>Singing:</u> Songs from Blast Off the musical	To write a song to perform	Music we will learn about Holst and his music, listen and respond to his most famous work 'The Planets'. Compose space music using percussion instruments. Write space music using pictures.	Appreciate and study 2001 Space Odyssey To listen to Star Wars theme tune.
PSHE	Teamwork Relationships with family/friends and peers: linked to Novel 'Cosmic'		Citizenship	
Physical Education	Dance – The Planets by Holst			
ART/DT	Moon Art	Moon Dust Moon Rocks	Mini Rocket Models	

WEEKS	6	7	8	9	10
Communicators	<ul style="list-style-type: none"> Use adventurous and sophisticated vocabulary. Explain the meaning of words, offering alternatives. 		<ul style="list-style-type: none"> Negotiate and compromise by offering alternatives. Offer alternative explanations when others don't understand 		Understand how to answer questions that require more than a yes/no or single sentence response
Readers	Use reciprocal Teaching Skills to explore class novel 'Cosmic' by Frank Cottrell				
Writers	English- Diary Entries 'life on Mars'		English- Alien Play-scripts		Biography-Neil Armstrong/Tim Peake astronaut n
Mathematicians	Line graphs	Perimeter	Area	Measure	Time
Scientists	Moon and moon phases		Eclipses, seasons and time zones		Stars Study of astronomy
Theologians	<u>Awe and Wonder</u> Idolatry, or Getting it Wrong (Wisdom 13:1-9) What Space can tell us about God (Psalm 19)		<u>Revelation</u> What happened to the devil? The Day of the Lord (Joel 2:10 3:15)		<u>Revelation</u> He will come again to judge the living and the dead (Matthew 24:29-31)

			And his kingdom will have no end (Daniel 12:2-4) (Revelation 5:5 6:14)
Computing	Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content LearnPad-Animation Make an animation of a rocket launch using models created and learnpads	Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information LearnPad Presenter programme Prepare work for exhibition	
Geographers	Draw a space map of our solar system and plot routes from earth, sun and moon.		Star Mapping Star Constellations.
Historians	Nasa- Space Propaganda	Nasa- Space Propaganda	Space Exploration- The Time of the Telescope: astronomy in ancient civilisations before looking at where and when the telescope was invented and how Galileo used this instrument to give birth to modern astronomy
Musicians	To compose music to accompany the film clip of the first moon landing.	To work in small groups using a variety of tuned and untuned instruments.	• To annotate the music written
PSHE	Discussions on how our physical appearance and personality can affect how people react to us: links to Novel 'Cosmic'		
Physical Education	Games Team Sports/outdoor activity/Invasion games		
Art/DT	Large Rocket Models	Planet Paintings	Make planetariums for exhibitions