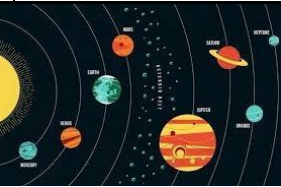


Science		History – The history of space travel		Geography	
		Key Theme: Legacy			
Working scientifically	Knowledge	Concept	Knowledge	Concepts	Knowledge
<p>Taps: Orbit explanation</p> <p>Plan: Plan an enquiry, recognising and controlling variables.</p> <p>Do: Describe the movement of the Earth in relation to the Sun</p> <p>Evaluate: Use scientific language to communicate and justify their conclusions.</p> <p>Talk about how science has developed over time.</p>	<p>Earth and Space</p> <p>What are the movement of the earth and other planets, relative to the Sun in the solar system?</p> <p>What are the names of the planets in our solar system?</p> <p>What is the movement of the Moon relative to the Earth?</p> <p>Why do we have day time and night time? Why does the sun seem to move across the sky, rising in the East and setting in the West?</p> <p>Visit to National Space Centre</p>	<p>Significant events and people</p> <p>Who are/were the key people in the history of space travel/exploration of the universe?</p>	<p>When has significant developments occurred in space travel?</p>	<p>Place</p> <p>What are the similarities and differences between the areas of the Baikonur Cosmodrome in Russia, the Kennedy Space Centre in America and Goonhilly Downs in the UK?</p>	<p>Can I locate Russia and north and south America on a map?</p> <p>What are the major cities of these areas?</p> <p>What are the position and significance of latitude, longitude, Equator, Northern Hemisphere, Southern Hemisphere, the Tropics of Cancer and Capricorn, Arctic and Antarctic Circle and time zones?</p>
		Context and chronology		Location	
		Similarity and difference		Geographical skills and field work	<p>Begin to suggest questions for investigating</p> <p>Begin to use primary and secondary sources of evidence in their investigations</p> <p>Compare and contrast places</p> <p>Begin to use 4 figure coordinates to locate features on a map</p> <p>Compare maps with aerial photographs</p> <p>Select a map for a specific purpose e.g. atlas to locate country</p> <p>OS map to find location of a village</p> <p>Use 8 compass points</p> <p>Identify significant places and environments</p>
		Continuity and Change	<p>What difference has space travel made?</p> <p>How has space travel helped us to learn about our world and other worlds?</p>		
Vocabulary Spherical Orbit Planetary phases	Solar-system Meteor Lunar rotate	Cause and Effect	How has the space race contributed to changes in society?	Environment	
		Historical enquiry	Some say that the moon landings did not happen. What evidence do we have that they did? Are these sources reliable?	Physical and human processes	
		Vocabulary	Astronaut, theatre, scientist, astronomer, astrologist, Apollo spaceships exploration, lunar, innovation Neil Armstrong, Galileo, space race, NASA, chronology, astronomy	Vocabulary	Russia, North America, South America' Baikonur cosmodrome, Kennedy Space Centre, Goonhilly Downs, Major cities, latitude, longitude, equator, Northern Hemisphere, Southern Hemisphere, The tropics of Cancer and Capricorn, Arctic and Antarctic Circle, time zones, coordinates, aerial, compass
Art and Design		 <p>Year 5</p> <p>Theme 2</p> <p>Is there anybody out there?</p>		Music (Charanga)	
Artist/s	NA			Charanga	Theme 2
Area of Study/activities	NA			Title	Great Composers
Vocabulary	NA			Style	Classical
Art form	NA			Theme	Listen, appraise and enjoy a variety of classical music
		Performance	Class assembly/ Spring Concert (See Charanga for lesson plans)		

Design and Technology		Religious Education		MFL - French	PSHEC & Relationships		Computing			
Area	Computer aided design & construction	Disposition	Content	<p style="text-align: center;">Gramacri French</p> <p style="text-align: center;">Units 12/13</p> <p style="text-align: center;">My school</p> <p style="text-align: center;">Physical description</p> <p style="text-align: center;">(See Gramacri planning for further information)</p>	Concepts	Knowledge	Skills	Knowledge		
Brief	To design a Moon Rover	Being hopeful and visionary	Advent and hope Hudasbyya and peace			Diversity & Equality	To know their worth as individuals and equality rights and responsibilities. (BV)	To review an existing website (navigation bars, header). To create a new blank web page. To add text to a web page. To set the style of text on a web page. To embed media in a web page. To add web pages to a website. To insert hyperlinks between pages. To insert hyperlinks to another site.	To recognise that web pages can contain different media types. To recognise that web pages are written by people. To recognise that a website is a set of hyperlinked web pages. To recognise components of a web page layout. To consider the ownership and use of images (copyright). To recognise the need to preview pages (different screens / devices). To recognise the need for a navigation path. To recognise the implications of linking to content owned by others.	
Research	Research videos and photographs of rovers. Discussing their various parts and purpose. Discuss and explain the CAD programme.									Being open, honest and truthful
Design	<ul style="list-style-type: none"> Children work individually to design their vehicle They should be encouraged to save and print some of their unfinished designs too, to show the progression of their design ideas. They can add text on screen to their design. •. This design should include a list of tools, materials, joining methods required. All diagrams should be labelled and sizes given. 	Being attentive to the sacred as well as the precious	Quiet time The ability to reason			Rights and responsibilities	Debate concepts of rights, responsibilities, rules and laws demonstrating an understanding of right, wrong and fairness. (BV)	To add web pages to a website. To insert hyperlinks between pages. To insert hyperlinks to another site.	To recognise that a website is a set of hyperlinked web pages. To recognise components of a web page layout. To consider the ownership and use of images (copyright). To recognise the need to preview pages (different screens / devices). To recognise the need for a navigation path. To recognise the implications of linking to content owned by others.	
Create	Create the prototype model following their design ideas. Adapt as necessary during construction and annotate their designs to show and explain their adaptations The design for the working vehicle will refer to the computer models to explain the design decisions each child makes		(See Birmingham Agreed Syllabus for lesson planning)							Vocabulary
Evaluate	The class will evaluate each working vehicle design against the design brief. The use of IT should be discussed also - did it make the designing and modelling an easier task?					Vocab Website Web Page Layout Copyright Fair Use Evaluate Breadcrumb Trail Evaluate Embed	Empathy Responsibilities Rights fairness	To add web pages to a website. To insert hyperlinks between pages. To insert hyperlinks to another site.	To add web pages to a website. To insert hyperlinks between pages. To insert hyperlinks to another site.	
Vocabulary	Computer aided design, prototype, model, rover									

English

Maths

**Theme 2
Is There Anybody Out There?**

Key Text	Linked Texts	Outcomes	Speaking and listening	Genre	Purpose /Audience
The Many Worlds of Albie Bright Christopher Edge	Bob Cox unit: Shame and Pain Little Women Louisa May Abbot Leigh: KS2 writing exemplification	Portal Story moving from Earth into space to include a build up of tension once through the portal	Use space themed backgrounds on IWB to interview characters from the other side of the portal to gather ideas for speech	Narrative	Writing to entertain/class library
Hidden Figures Margot Lee Sheterly & Laura Freeman	Planetarium Science museum	Non chronological report about female figures involved in the space race	Hot seat characters from hidden figures to learn more about them	Non Fiction	Writing to inform/NASA
The Moon Robert Louis Stevenson	Bob Cox – Making Magic Talk The Magnifying Glass Walter de la Mare	Write a zooming in poem focused on part of a planet	Performing poetry with expression	Poetry	Writing to entertain/Bob Cox
Grammar	NOUN, which/who, where sentence, 3 bad-(dash) question? Sentence, Use of rhetorical questions, Sentence reshaping techniques e.g. lengthening or shortening sentences for meaning and /or effect, Relative clause/pronoun, Modal verb, Developed use of technical language, Moving sentence chunks (how, when, where) around for different effects, Puns, oxymorons, alliteration				
Punctuation	Parenthesis, Use of commas to clarify meaning or avoid ambiguity, Stage directions in speech (speech + verb + action) e.g. <i>"Stop!" he shouted, picking up the stick and running after the thief.</i> Use of speech punctuation				
Spellings	Converting nouns or adjectives into verbs using suffixes e.g. -ate; -ise; -ify, Develop use of technical language, Purple mash spelling planning (autumn 2 week 3- spring 1):- Exceptions to the i before e rule except after c, Statutory list – Random, Words containing the letter string ough, Recap Autumn Term, Words ending in able, Homophones – words that are confused				

Number – Fractions

Find fractions equivalent to a unit fraction
 Find fractions equivalent to a non-unit fraction
 Recognise equivalent fractions
 Convert improper fractions to mixed numbers
 Convert mixed numbers to improper fractions
 Compare fractions less than 1
 Order fractions less than 1
 Compare and order fractions greater than 1
 Add and subtract fractions with the same denominator
 Add fractions within 1
 Add fractions with total greater than 1
 Add to a mixed number Step 13 Add two mixed numbers
 Subtract fractions
 Subtract from a mixed number
 Subtract from a mixed number – breaking the whole
 Subtract two mixed numbers
 Multiply a unit fraction by an integer
 Multiply a non-unit fraction by an integer
 Multiply a mixed number by an integer
 Calculate a fraction of a quantity
 Fraction of an amount
 Find the whole
 Use fractions as operators

Number – Multiplication and Division

Multiply up to a 4-digit number by a 1-digit number
 Multiply a 2-digit number by a 2-digit number (area model)
 Multiply a 2-digit number by a 2-digit number
 Multiply a 3-digit number by a 2-digit number
 Multiply a 4-digit number by a 2-digit number
 Solve problems with multiplication
 Short division
 Divide a 4-digit number by a 1-digit number
 Divide with remainders
 Efficient division
 Solve problems with multiplication and division