

Curriculum | Medium Term Plan – Spring 2022

Challenge Pack:	Space Infinity - How can we help people experience space virtually?	Challenge outcome:	Children will set up a virtual experience for parents to come and learn about and experience space.	NC Year:	5
Summary	This Challenge begins by delving into the pioneers of space exploration and locating key test sites across North America and Russia. The focus then shifts onto forces; children will be immersed into a two-week science project, investigating the forces which are present and can act upon objects. Following this, children will be given the opportunity to link their forces knowledge to design and test their very own rockets. After half term, the children will learn all about Space, discovering the planets, moons and stars before finally putting all of this knowledge into context by creating a planetarium exhibition.	Hook:	Visit to National Space Museum, Leicester – Children will visit the National Space Museum to gain an understanding of both the features of space, planets, stars and black holes and also an understanding of the history of space flight. This will give the children a good basis for our learning which will lead to a high quality challenge pack outcome.		
Key texts:	Fiction: See You In The Cosmos Cosmic by Frank Cottrell Laika the Astronaut Non-Fiction: How To Be a Space Explorer by LP Kids The Extraordinary Life of Neil Armstrong by Martin Howard Moonshot	Trips and visits:	National Space Museum Leicester	Aspire sessions:	5WB - 26 th January 5SU – 2 nd February 5RG – 9 th February



- I am beginning to vary my tone of voice to emphasis certain parts
- I can vary my facial expression to match the tone of the talk.



- I can sequence sentences so that they are related to one another.
- I can use the subject specific language of different disciplines, e.g. talk like a scientist, historian, mathematician, tour guide.



- I can choose and organise the content
 - I can include relevant content to help achieve the purpose of the talk.



- I can show calmness and composure when speaking to an audience
 - I can speak without learning specific lines, based on a topic I know well

	Maths:	English:	Class reader: Phonics:	NICER:	Discrete/Special events:
04.01.22	<p>Area of learning: Multiplication</p> <p>Knowledge of skills: Multiplying 2,3 and 4 digit numbers by a single digit number</p> <p>Skills Children use their knowledge of exchanging ten ones for one ten in addition and apply this to multiplication, including exchanging multiple groups of tens. They use place value counters to support their understanding. Include applying multiplication skills using the area model.</p> <p>Mental maths focus Doubling and halving</p>	<p>Purpose: Writing to entertain Text type: Character description- Create a character description based on Alex Petroski (see you in the cosmos) to entertain the reader.</p> <p>Knowledge and skills:</p> <ul style="list-style-type: none"> - Identify and use expanded noun phrases to create an image in the readers mind - Use figurative language to create an image and feelings in relation to the character and setting. - Use a wide range of punctuation accurately and consistently <p>Vocabulary: Space, cosmos, lifeforms, earth, planets, , Space station, moon, atmosphere, orbit, moon, atmosphere, orbit, Planet, satellite, sphere, solar system, eclipse, universe, moon</p>	<p>See You In The Cosmos</p> <p>(Links to character and setting description)</p> <p>Vipers -Vocabulary -Close Reading -Comprehension -Reading for pleasure/ Reading Plus -Reading games/ Reading Plus</p>	<p>Begin with a bang! (Introduction to challenge- Leicester Space Centre. Who were the pioneers and where did they come from?)</p> <p>Killer Questions How have previous space pioneers contributed to current space missions?</p> <p>G3.1a-As Geographers WALT: identify the space pioneers and where they originated from Outcome- Children will plot space pioneers on a map</p> <p>(Give children carefully provided information packs containing the declarative knowledge on space pioneers)</p> <p>B3.5 - As British Citizens Walt: identify self-care techniques and the benefits of these Outcome- Children will create a diamond 9 model looking at the impact of mindfulness, time spent with family etc</p> <p>Link to learning outcome – Children will visit the space centre in order to link new learning to and inspire an interest in space related learning.</p>	<p>Epiphany (6 January)</p> <p>Arrange visit to Leicester Space Centre</p>
Homework	<p>Number bond or timetables practise: 5/6 x tables focussing on all 4 number sentences for each calculation</p>	<p>Spellings: community curiosity ability visibility captivity activity eternity flexibility possibility sensitivity</p>	<p>Reading book/ Reading Plus See you in the cosmos</p>	<p>Flipped homework: Identify continents, seas, cities, international boundaries Think of ways of creating a map to show this.</p>	

10.01.22	<p>Area of learning: Multiplication and division</p> <p>Knowledge of skills: Multiply 2 digits by 2 then increase to 3 digits by 2 digits up to 4 digits by 2 digits. Divide 2 digit numbers by a 1 digit number</p> <p>Skills Children build on previous steps to represent a three-digit number multiplied by a one-digit number with concrete manipulatives.</p> <p>Children build on previous steps to represent a 4-digit number multiplied by a 1-digit number using concrete manipulatives.</p> <p>Mental maths focus: Mental multiplication calculations</p>	<p>Purpose: Writing to entertain Text type: Setting description- create a description based on 'See You In The Cosmos' (linked with character description)</p> <p>Knowledge and skills:</p> <ul style="list-style-type: none"> - Identify and use expanded noun phrases to create an image in the readers mind - Use figurative language to create an image and feelings in relation to the character and setting. - Use a wide range of punctuation accurately and consistently <p>Vocabulary: Space, cosmos, lifeforms, earth, planets, , Space station, moon, atmosphere, orbit, moon, atmosphere, orbit, Planet, satellite, sphere, solar system, eclipse, universe, moon</p>	<p>See You In The Cosmos</p> <p>(Links to character and setting description)</p> <p>Vipers</p> <ul style="list-style-type: none"> -Vocabulary -Close Reading -Comprehension -Reading for pleasure/ Reading Plus -Reading games/ Reading Plus 	<p>Where are Russia and North America? Which cities were involved with space missions? (Children to identify using maps the location of Russia and North America including the cities involved with the space race.)</p> <p>Killer Questions Where in the world have space missions taken place? What is the significance of the Prime meridian and Greenwich meantime?</p> <p>G3.1a- As Geographers WALT: locate countries in North America so that we can recognise specific sites for space missions. Outcome- Plot space mission sites on the map of North America</p> <p>G3.1a- As Geographers WALT: locate countries in Europe (Russia) so that we can recognise specific sites for space missions. Outcome- Plot space mission sites on the map of North America</p> <p>G3.1a -As Geographers WALT: identify time zones across the globe so that we can identify their significance Outcome- Children colour code countries showing time zones. Children explain differences between time zones involving Russia and North America.</p> <p>(Have children create world clocks (North America/ Russia) during the week to help understand time zones)</p> <p>Link to learning outcome – children will develop their understanding of key space mission so that they can share their understanding during the challenge outcome.</p>	<p>World Religion Day (16 January)</p>
Homework	<p>Number bond or timetables practise: 4/7 x tables focussing on all 4 number sentences for each calculation</p>	<p>Spellings: happiness hardness madness nastiness silliness tidiness childishness willingness carelessness foolishness</p>	<p>Reading book/ Reading Plus</p> <p>See you in the cosmos</p>	<p>Flipped homework:</p> <p>Time the list of objects of how long it takes to hit the ground. At home could you think of a test that will show how different objects are affected by gravity. How can you make it a fair test? How will you record your results?</p>	

17.01.22	<p>Area of learning: Division</p> <p>Knowledge of skills: Division by 1 digits, 2,3 and 4 numbers Divide where the answer involves remainders.</p> <p>Skills Children build on their knowledge of dividing a 2-digit number by a 1-digit number from Year 3 by sharing into equal groups. Children use examples where the tens and the ones are divisible by the divisor, e.g. 96 divided by 3 and 84 divided by 4. They then move on to calculations where they exchange between tens and ones.</p> <p>Mental maths Mental division calculations</p>	<p>Purpose: Writing to entertain Text type: Narrative with a space theme – Using character/setting description to write a short chapter</p> <p>Knowledge and skills:</p> <ul style="list-style-type: none"> - Use a wide range of punctuation accurately and consistently - Recognise and use abstract nouns - Identify and use nouns, pronouns, adjectives and determiners appropriately - Identify and use verbs, adverbs, prepositions and conjunctions appropriately - Use of ellipsis to create suspense <p>Vocabulary: Space, g-force, rocket, comets, lifeforms, earth, planets, , Space station, moon, atmosphere, orbit, moon, atmosphere, orbit, Planet, satellite, sphere, solar system, moon</p>	<p>See you in the cosmos</p> <p>(Links to narrative)</p> <p>Vipers -Vocabulary -Close Reading -Comprehension -Reading for pleasure/ Reading Plus -Reading games/ Reading Plus</p>	<p>Preparing for launch! (Children will be given the opportunities to apply their scientific thinking to carry out a range of experiments involving forces.)</p> <p>Killer Question How do different forces work? Why do astronauts float in space?</p> <p>S3.2e -As Scientists WALT: explore and explain the effects of gravity on objects. Outcome- Class complete a meteorite challenge</p> <p>S3.2f- -As Scientists WALT: identify the effects of air resistance on moving objects. Outcome- Class complete a parachute experiment</p> <p>S3.2g -As Scientists WALT: identify the effect mechanisms, including levers have on exerting force. Outcome – Class complete a meteorite recovery</p> <p>Link to learning outcome – Children will develop their understanding of why rockets are designed in the way that they are and be able to explain designs to others attending the outcome.</p>	<p>Dr Martin Luther King Jr Day (17 January) Tu B'Shevat (Arbor Day) (17 January)</p>
Homework	<p>Number bond or timetables practise: 8/2 x tables focussing on all 4 number sentences for each calculation</p>	<p>Spellings: membership ownership partnership dictatorship championship craftsmanship fellowship apprenticeship citizenship sponsorship</p>	<p>Reading book/ Reading Plus See you in the cosmos</p>	<p>Flipped homework: Find out all about space rockets. Use different sources (print off fact sheet) to describe what a space rocket is and how they have changed over time.</p>	
24.0.22	<p>Area of learning: Fractions</p> <p>Skills Children explore fractions in different representations, for example, fractions of shapes, quantities and fractions on a number line. They explore and recap the meaning of</p>	<p>Purpose: Writing to entertain Text type: Narrative with a space theme – Using character/setting description to write a short chapter</p> <p>Knowledge and skills:</p> <ul style="list-style-type: none"> - Use a wide range of punctuation accurately 	<p>See you in the cosmos</p> <p>(Links to narrative)</p> <p>Vipers -Vocabulary -Close Reading -Comprehension</p>	<p>May the force be with you! (Children will be given the opportunities to apply their scientific thinking to carry out a range of experiments involving forces.)</p> <p>Killer Questions What forces stop objects moving freely through the air? Why don't aeroplanes fall out of the sky because of this force?</p>	<p>Burns Night (25 January) Holocaust Memorial Day (27 January)</p>

	<p>numerator and denominator, non-unit and unit fractions</p> <p>Knowledge of skills: Identifying fractions Equivalent fractions Fractions greater than 1 Improper fractions to mixed numbers</p> <p>Mental maths Mental division strategies Key question Busses hold 60 passengers, 125 passengers want to go on a trip, how many busses will be needed?</p>	<p>and consistently</p> <ul style="list-style-type: none"> - Recognise and use abstract nouns - Identify and use nouns, pronouns, adjectives and determiners appropriately - Identify and use perfect forms of verbs to show time and cause appropriately - Use of ellipsis to create suspense <p>Vocabulary: Space, g-force, rocket, comics, earth, planets, , Space station, moon, atmosphere, orbit, moon, atmosphere, orbit, Planet, satellite, sphere, solar system, moon</p>	<p>-Reading for pleasure/ Reading Plus -Reading games/ Reading Plus</p>	<p>S3.2f- As Scientists WALT: Identify the effects of friction acting between moving surfaces. Outcome- Children conduct a bike challenge</p> <p>S3.2f- As Scientists WALT: Identify the effects of friction acting between moving surfaces. Outcome- Children conduct a path challenge</p> <p>S3.2f- As Scientists WALT: Identify the effects of water resistance between moving surfaces. Outcome- Children conduct a boat challenge</p> <p>Link to learning outcome – Children will further their understanding of rocket designs so that they can design their own to present at the outcome.</p>	
Homework	<p>Number bond or timetables practise: 9/11 x tables focussing on all 4 number sentences for each calculation</p>	<p>Spellings: Stationary, Stationery, Steal, Steel, Wary, Weary, Who's, Whose, Fate, Fete</p>	<p>Reading book/ Reading Plus</p> <p>See you in the cosmos</p>	<p>Flipped homework:</p> <p>Think about ways that you could make a rocket Use BBC bitesize for ideas How can you make it powered CAF some ideas to work ready for this weeks learning.</p>	<p>5SB Class assembly 2KK INSPiRE</p>
31.01.22	<p>Area of learning: Ordering and comparing fractions</p> <p>Skills Children explore equivalent fractions using models and concrete representations. They use models to make the link to multiplication and division. Children then apply the abstract method to find equivalent fractions.</p> <p>Knowledge of skills: Mixed numbers to improper fractions and vice-versa Number sequences Ordering and comparing fractions greater than 1</p>	<p>Purpose: Writing to entertain Text type: Narrative with a space theme – Using character/setting description to write a short chapter</p> <p>Knowledge and skills:</p> <ul style="list-style-type: none"> - Use a wide range of punctuation accurately and consistently - Recognise and use abstract nouns - Identify and use nouns, pronouns, adjectives and determiners appropriately - Identify and use perfect forms of verbs to show time and cause appropriately 	<p>See you in the cosmos</p> <p>(Link to narrative)</p> <p>Vipers -Vocabulary -Close Reading -Comprehension -Reading for pleasure/ Reading Plus -Reading games/ Reading Plus</p>	<p>Building a rocket. (Based on children's forces knowledge and what they noticed at space centre they will be given the opportunity to design, build and test their very own rockets.)</p> <p>Killer Questions Why do you think certain rockets failed? How can we create a working model of a rocket?</p> <p>We will be making a powered rocket and the children will work through a process of design/make/test and refine. We will be using bottle rocket challenge (explore opportunities for external workshop to come into school to create rockets, details to be updated.</p> <p>D3.1a - As Technicians WALT: generate ideas and create a specification for our own rockets so that we make it. Outcome- Children use blue hat to create design specification</p> <p>D3.3a - As Technicians WALT: Use tools and equipment safely so that we can build our rockets. Outcome –Create rockets</p>	<p>LGBT+ History Month (starts 1 February) Chinese New Year (1 February) Candlemas (2 February) World Cancer Day (4 February)</p>

	<p>Mental maths Finding fractions of numbers, ½ of, ¼ of etc</p>	<ul style="list-style-type: none"> - Use of ellipsis to create suspense <p>Vocabulary: Space, g-force, rocket, comics, earth, planets, , Space station, moon, atmosphere, orbit, moon, atmosphere, orbit, Planet, satellite, sphere, solar system, moon</p>		<p>D3.4b -As Technicians WALT: test and evaluate our rockets so that we can propose new ideas. Outcome – Children test and PMI their rockets</p> <p>Link to learning outcome – Children continue to develop their understanding of rocket designs so that they can explain why some may have been unsuccessful.</p>	
Homework	<p>Number bond or timetables practise: 12/6 x tables focussing on all 4 number sentences for each calculation</p>	<p>Spellings: Alter, Altar, Ascent, Assent, Bridal, Bridle, Cereal, Serial, Compliment, Complement</p>	<p>Reading book/ Reading Plus See you in the cosmos</p>	<p>Flipped homework: Create poster/fact sheet that will explain to others how to keep healthy.</p>	<p>5SU Class assembly 2AP INSPIRE</p>
07.02.22	<p>Area of learning: Addition of fractions</p> <p>Skills Children build on their equivalent fraction knowledge to compare and order fractions less than 1 where the denominators are multiples of the same number. Children compare the fractions by finding a common denominator or a common numerator. They use bar models to support their understanding.</p> <p>Knowledge of skills: Order fractions Add fractions within 1 Add 3 or more fractions</p> <p>Mental maths Mentally convert mixed numbers to fractions and vice versa</p>	<p>Purpose: Writing to entertain Text type: Poetry about space (Laika the astronaut)</p> <p>Knowledge and skills:</p> <ul style="list-style-type: none"> - Use commas - Identify and use verbs, adverbs, prepositions and conjunctions appropriately - Recognise and use varied sentence types - Use of standard English during performance. <p>Vocabulary: Astronaut, space, g-force, rocket, comics, earth, planets, , Space station, moon, atmosphere, orbit, moon, atmosphere, orbit, Planet, satellite, sphere, solar system, moon</p>	<p>Laika the astronaut (Link to the poetry)</p> <p>Vipers -Vocabulary -Close Reading -Comprehension -Reading for pleasure/ Reading Plus -Reading games/ Reading Plus</p>	<p>Puberty- keeping yourself safe. (Children to identify changes in their bodies during puberty. They will be given the information about who to access support from if they have concerns.)</p> <p>Killer Question How can I make myself a healthier person through my actions. Why should I?</p> <p>B3.18 / 3.2 - As British citizens WALT: identify changes in our bodies which occur during puberty. Outcome -Puberty talk</p> <p>B3.9- As British citizen WALT: identify how bullying can have a negative effect on wellbeing Outcome – Children create roll on the wall to show effects of bullying</p> <p>B3.12- As British Citizens WALT: identify the impact of unhealthy eating and other behaviours on the human body Outcome – Children complete sorting activity and retrieve facts from a case study.</p>	<p><u>Charles Dickens' birthday</u> (7 February) <u>Safer Internet Day</u> (8 February) <u>Darwin Day</u> (12 February)</p>
Homework	<p>Number bond or timetables practise: 8/4 x tables focussing on all 4 number sentences for each calculation</p>	<p>Spellings: Principal, Principle, Profit, Prophet, Descent, Dissent, Desert, Dessert, Draft, Draught</p>	<p>Reading book/ Reading Plus Laika the astronaut</p>	<p>Flipped homework: List the name and number of planets Choose one, what can you find out about it? How can you present the information?</p>	<p>5RG Class assembly 2SP INSPIRE</p>

14.02.22	<p>Area of learning: Add and subtract fractions</p> <p>Skills Children recap their Year 4 understanding of adding and subtracting fractions with the same denominator. They use bar models to support understanding of adding and subtracting fractions.</p> <p>Knowledge of skills: Add and subtract fractions Subtract and add mixed number fractions</p> <p>Mental Maths Mental strategies for making 1 using fractions</p> <p>Assessment week tbc</p>	<p>Purpose: Writing to entertain Text type: Performance Poetry about space – Use previous weeks poems to perform (Laika the astronaut)</p> <p>Knowledge and skills:</p> <ul style="list-style-type: none"> - Use commas - Identify and use verbs, adverbs, prepositions and conjunctions appropriately - Recognise and use varied sentence types - Use of standard English during performance. <p>Vocabulary: Astronaut, space, g-force, rocket, comics, earth, planets, , Space station, moon, atmosphere, orbit, moon, atmosphere, orbit, Planet, satellite, sphere, solar system, moon</p>	<p>Laika the astronaut</p> <p>(Link to the poetry)</p> <p>Vipers -Vocabulary -Close Reading -Comprehension -Reading for pleasure/ Reading Plus -Reading games/ Reading Plus</p>	<p>What will we find in space? (Children will be given the opportunity to explore space. They will generate their own killer questions, which will be explored through scientific questioning and experimentation.)</p> <p>Killer Question: What do you think the temperature would be in Pluto? Explain When does the solar eclipse occur?</p> <p>S3.1a - As Scientists WALT: develop scientific enquiry questions so that we can plan an investigation. Outcome: Children use blue hat to plan an investigation</p> <p>S3.2h -As Scientists WALT: Identify planets and their movement in relation to the sun. Outcome: Children create and represent the solar system using practical resources (craft project)</p> <p>S3.2h- As Scientists WALT: describe the movement of the planets in relation to the sun. Outcome: Children create and represent the solar system using practical resources (craft project)</p> <p>Link to learning outcome – Children will develop their understanding of the conditions in space and what they are likely to see so that they can recreate it as part of their virtual experience.</p>	<p>Valentine's Day (14 February)</p>
Homework	<p>Number bond or timetables practise: 9/3 x tables focussing on all 4 number sentences for each calculation</p>	<p>Spellings: Spelling test</p>	<p>Reading book/ Reading Plus</p> <p>Laika the astronaut</p>	<p>Flipped homework:</p>	<p>6MA INSPiRE</p> <p>Everybody write day</p>
21.02.22				<i>Half Term</i>	
Homework	<p>Number bond or timetables practise: 6/5 x tables focussing on all 4 number sentences for each calculation</p>	<p>Spellings: Forty, scorch, absorb, decorate, afford, enormous, category, tornado, according, opportunity</p>	<p>Reading book/ Reading Plus</p> <p>How we got to the moon</p>	<p>Flipped homework:</p> <p>How do planets move? What are stars and how are they related to planets.?</p>	

28.02.22	<p>Area of learning: Subtracting and multiplying fractions</p> <p>Skills Children are introduced to multiplying fractions by a whole number for the first time. They link this to repeated addition and see that the denominator remains the same, whilst the numerator is multiplied by the integer.</p> <p>Knowledge of skills:</p> <p>Subtract 2 mixed numbers Multiply unit fractions by an integer Multiply mixed numbers by integers</p> <p>Mental maths Tests for multiples.</p> <p>Key questions Do all multiples of 3 have to include the numbers 3, 6 and 9?</p>	<p>Purpose: Writing to inform Text type: Newspaper article to inform the reader about a moon landing – Based on Mae Jemison the 1st African American female astronaut</p> <p>Knowledge and skills:</p> <ul style="list-style-type: none"> - Use reported speech - Identify and begin to use relative clauses - Use a wide range of punctuation accurately and consistently <p>Vocabulary: space, gravity, planets, solar system, astronaut, g-force, rocket, comics, earth, moon, atmosphere, orbit, atmosphere, orbit, satellite, sphere, solar system, moon</p>	<p>How we got to the moon</p> <p>(Links to newspaper article)</p> <p>Vipers -Vocabulary -Close Reading -Comprehension -Reading for pleasure/ Reading Plus -Reading games/ Reading Plus</p>	<p>What will we find in space? (Children will be given the opportunity to explore space. They will generate their own killer questions, which will be explored through scientific questioning and experimentation.)</p> <p>Killer Question: Why do we see stars on certain nights but not all the time? Why is it night in England when it is 5pm in America?</p> <p>S3.2j- As Scientists WALT: describe the movement of the planets in relation to the sun. Outcome: Create an episode of a star gazing programme</p> <p>S3.2i -As Scientists WALT: identify the movement of the planets so that we can create an orrery. Outcome: Children create an orrery</p> <p>S3.2h - As Scientists WALT: explore the Earth’s rotation so that we can explain day and night. Outcome: Create a sundial (Link with Roman numerals.)</p> <p>Link to learning outcome – Children will develop their understanding of the conditions in space and what they are likely to see so that they can recreate it as part of their virtual experience.</p>	<p>Women’s History Month (begins 1 March) St David’s Day (1 March) Isra and Mi’raj (1 March) Shrove Tuesday (1 March) Ash Wednesday (Lent begins) (2 March) World Book Day (3 March)</p>
	Homework	<p>Number bond or timetables practise: 2/10 x tables focussing on all 4 number sentences for each calculation</p>	<p>Spellings: Pause, cause, sauce, fraud, launch, author, August, applaud, astronaut, restaurant</p>	<p>Reading book/ Reading Plus</p> <p>How we got to the moon</p>	<p>Flipped homework:</p> <p>List key facts about the moon Use a CAF to show key information. Is the phrase dark side of the moon correct?, how do you know? Could the earth survive without the moon, what would happen if the moon wasn’t there anymore?</p>
07.03.22	<p>Area of learning: Calculations of fractions of amounts</p> <p>Skills Children use their knowledge of finding unit fractions of a quantity, to find non-unit</p>	<p>Purpose: Writing to inform Text type: Newspaper article to inform the reader about a moon landing – Based on Mae Jemison the 1st African American female astronaut</p>	<p>How we got to the moon</p> <p>(Links to newspaper article)</p> <p>Vipers -Vocabulary</p>	<p>What will we find in space? (Children will be given the opportunity to explore space. They will generate their own killer questions, which will be explored through scientific questioning and experimentation.)</p> <p>Killer Question:</p>	<p>International Women’s Day (8 March)</p>

	<p>fractions of a quantity. They use concrete and pictorial representations to support their understanding. Children link bar modelling to the abstract method in order to understand why the method works.</p> <p>Knowledge of skills: Finding fractions of amounts Using fractions as operators Applying understanding of fractions in problem solving activities.</p> <p>Mental maths Mental strategies for multiplying and dividing whole numbers by fractions.</p>	<p>Knowledge and skills:</p> <ul style="list-style-type: none"> - Use reported speech - Identify and begin to use relative clauses - Use a wide range of punctuation accurately and consistently <p>Vocabulary: space, gravity, planets, solar system, astronaut, g-force, rocket, comics, earth, moon, atmosphere, orbit, atmosphere, orbit, satellite, sphere, solar system, moon</p>	<p>-Close Reading -Comprehension -Reading for pleasure/ Reading Plus -Reading games/ Reading Plus</p>	<p>Why does it take an astronaut a while to adjust after coming back from the moon? What would happen if there was no sun?</p> <p>S3.2H - As Scientists WALT: identify the movement of the moon in relation to the Earth. Outcome: Children complete a Lunar investigation</p> <p>S3.2J -As Scientists WALT: Describe the movement of the moon in relation to the Earth. Outcome –Conduct a Lunar investigation</p> <p>Link to learning outcome – Children will develop their understanding of the solar system in order to recreate/ explain it to an audience.</p>	
Homework	<p>Number bond or timetables practise: Mixed multiplication practice</p>	<p>Spellings: Pollinate, Captivate, Activate, Motivate, Communicate, Medicate, Elasticate, Hyphenate, Alienate, Validate</p>	<p>Reading book/ Reading Plus Class Reader Georges secret key to the universe by Lucy Hawkins</p>	<p>Flipped homework: Research astronauts such as Buzz Aldrin, why are they famous? Give fact sheet,. Use secondary sources. Extension What do people have to do to train as astronauts? Think of creative ways of showing this.</p>	6JD INSPiRE
14.03.22	<p>Area of learning: Decimals and decimal calculations</p> <p>Skills Children use place value counters and a place value grid to make numbers with up to two decimal places. They read and write decimal numbers and understand the value of each digit. They show their understanding of place value by partitioning decimal numbers in different ways.</p> <p>Knowledge of skills: Identify decimals up to 2 d.p. Decimals converted to fractions Understand 1000s</p>	<p>Purpose: Writing to inform Text type: Diary entry to inform the reader about a moon landing (<i>Moonshot</i>)</p> <p>Knowledge and skills:</p> <ul style="list-style-type: none"> - Use dashes, commas, and brackets to indicate parenthesis - use relative clauses - Use a wide range of punctuation accurately and consistently <p>Vocabulary: space, gravity, planets, solar system, astronaut, g-force, rocket, comics, earth, moon, atmosphere, orbit,</p>	<p>Moonshot (Link diary entry)</p> <p>Vipers -Vocabulary -Close Reading -Comprehension -Reading for pleasure/ Reading Plus -Reading games/ Reading Plus</p>	<p>Building a planetarium! (Children will explore sculptures. They will generate their own ideas for creating sculptures ready for our planetarium. Children will choose which medium to use and be able to explain why.)</p> <p>Killer Question: How are sculptures different to paintings? Why would sculptures be better to create a virtual experience?</p> <p>A3.4b -As Artists WALT: explore a range of sculptures so that we can use the techniques to plan for our own. Outcome: Children observe images of sculptures and describe how certain techniques have been used</p> <p>A3.4b -As Artists WALT: use a range of materials so that we can create our own sculptures of the planets. Outcome: Children create their own sculptures (modrock)</p>	<p>Pi Day (14 March) St Patrick's Day (17 March) Purim (17 March) Holi (18 March)</p>

	Thousands as decimals Mental maths Mental calculations (applying skills) in calculating fractions of amounts	atmosphere, orbit, satellite, sphere, solar system, moon		A3.4a -As Artists WALT: use a range of materials so that we can create our own sculptures of the planets . Outcome: Children create their own sculptures (modrock) Link to learning outcome – Children will create sculptures as discussion prompt for the challenge outcome and to add to the virtual experience.	
Homework	Number bond or timetables practise: 100 x tables focussing on all 4 number sentences for each calculation	Spellings: Criticise, Advertise, Capitalise, Finalise, Equalise, Fertilise, Terrorise, Socialise, Visualise Vandalise	Reading book/ Reading Plus Moonshot	Flipped homework: Design on paper how you are going to present features of your planet exhibition. Use your ideas as a base for creating it.	1FG Class assembly 6MC INSPiRE
21.03.22	Area of learning: Decimals Skills Children develop their understanding of rounding to the nearest whole number and to the nearest tenth. Children order and compare numbers with up to three decimal places. Knowledge of skills: Rounding decimals Ordering and comparing decimals Understanding percentages Mental maths Multiplying dividing by 10, 100 and 1000	Purpose: Writing to inform Text type: Diary entry to inform the reader about a moon landing (<i>Moonshot</i>) Knowledge and skills: - Use dashes, commas, and brackets to indicate parenthesis - use relative clauses - Use a wide range of punctuation accurately and consistently Vocabulary: space, gravity, planets, solar system, astronaut, g-force, rocket, comics, earth, moon, atmosphere, orbit, satellite, sphere, solar system, moon	Moonshot (Link diary entry) Vipers -Vocabulary -Close Reading -Comprehension -Reading for pleasure/ Reading Plus -Reading games/ Reading Plus	Preparing for exhibition. (Children will use ICT to produce resources for our planetarium exhibition. They will present key learning using floor books, sculptures, VR experiences imovie.) C3.1c - As Digital Technicians WALT: combine photos and videos to create a multimedia video Outcome- Children use Doink and google expeditions to create a short video/animation about space C3.1c - As Digital Technicians WALT: combine photos and videos to create a multimedia video Outcome- Children use Doink and google expeditions to create a short video/animation about space C3.1d - As Digital Technicians WALT: manipulate sound/music to create a desired effect Outcome- Children will use their finalised clip and place it into iMovie to add sound/music Link to learning outcome – Children will be creating media to use as part of their challenge outcome.	International Day for the Elimination of Racial Discrimination (21 March) World Poetry Day (21 March) World Down Syndrome Day (21 March) World Water Day (22 March) Mother's Day (27 March)
Homework	Number bond or timetables practise: 1000 x tables focussing on all 4 number sentences for each calculation	Spellings: Homophones and near homophones	Reading book/ Reading Plus Moonshot	Flipped homework: Think of items you might want to add to your presentations, maybe make models, extra multi media or maybe some other related ideas.	1TG class assembly 4PA INSPiRE

28.03.22	<p>Area of learning: Decimals and percentages</p> <p>Skills</p> <p>Children are introduced to 'per cent' for the first time and will understand that 'per cent' relates to 'number of parts per hundred'. They will explore this through different representations which show different parts of a hundred. Children will use 'number of parts per hundred' alongside the % symbols</p> <p>Knowledge of skills: Percentages as fractions and decimals Real life percentage problems</p> <p>Mental maths Multiplying, dividing by 10, 100 and 1000</p> <p>Assessment week tbc</p>	<p>Purpose: Writing to inform Text type: Biography to inform the reader about Neil Armstrong</p> <p>Knowledge and skills:</p> <ul style="list-style-type: none"> - Identify and use nouns, pronouns, adjectives and determiners appropriately - Use reported speech - use relative clauses - Use a wide range of punctuation accurately and consistently <p>Vocabulary: space, gravity, planets, solar system, astronaut, g-force, rocket, comics, earth, moon, atmosphere, orbit, atmosphere, orbit, satellite, sphere, solar system, moon</p>	<p>The extraordinary life of Neil Armstrong (Biography)</p> <p>Vipers -Vocabulary -Close Reading -Comprehension -Reading for pleasure/ Reading Plus -Reading games/ Reading Plus</p>	<p>B3.8 - As British Citizens Walt: understand how a digital footprint works and the impact on sharing information online.</p> <p>A3.6- As British Citizens WALT: understand importance of permission seeking and giving in different types of relationships</p> <p>(Children will work collaboratively to create and host their for their space exhibition.)</p>	<p>April Fool's Day (1 April) Ramadan begins (2 April) World Autism Awareness Day (2 April)</p>
Homework	<p>Number bond or timetables practise: Mixed multiplication mental exercises</p>	<p>Spellings: Homophones and near homophones</p>	<p>Reading book/ Reading Plus</p> <p>The extraordinary life of Neil Armstrong</p>	<p>Flipped homework:</p> <p>How can we review what we have learned this term? How could we present this?</p>	<p>1SS Class assembly 4PM INSPIRE</p>
04.04.22	<p>Activity week</p> <p>Area of Learning Percentages and their relation to fractions and decimals (making links)</p> <p>Skills Children represent percentages as fractions using the denominator 100 and make the connection to decimals and hundredths. Children will recognise percentages, decimals and</p>	<p>Purpose: Writing to inform Text type: Biography to inform the reader about Neil Armstrong</p> <p>Knowledge and skills:</p> <ul style="list-style-type: none"> - Identify and use nouns, pronouns, adjectives and determiners appropriately - Use reported speech - use relative clauses - Use a wide range of punctuation accurately and consistently 	<p>The extraordinary life of Neil Armstrong (Biography)</p> <p>Vipers -Vocabulary -Close Reading -Comprehension -Reading for pleasure/ Reading Plus -Reading games/ Reading Plus</p>	<p>Challenge Outcome:</p> <p>Children will set up, promote and present their own space exhibition.</p>	<p>World Health Day (7 April) Passover (begins 15 April) Good Friday (15 April) Easter Sunday (17 April) Easter Monday (18 April)</p>

	<p>fractions are different ways of expressing proportions.</p> <p>Mental maths Revise multiplication strategies How can we multiply larger numbers using our knowledge of times tables.</p>	<p>Vocabulary: space, gravity, planets, solar system, astronaut, g-force, rocket, comics, earth, moon, atmosphere, orbit, atmosphere, orbit, satellite, sphere, solar system, moon</p>			
Homework	<p>Number bond or timetables practise: 144 Club</p>	<p>Spellings: Spelling test</p>	<p>Reading book/ Reading Plus The extraordinary life of Neil Armstrong</p>	<p>Flipped homework: During the holidays find out some information about invaders in History.</p>	<p>4OS INSPIRE</p>