Art and Design

Art: Painting of planets and space linked to Music appreciation Holst Planets .

DT: Design and create a small scale orbit including, the Sun, Moon and Earth.

Use CAMS in designs and products to make them move in specific ways.

Geography

The World: Volcanoes Earthquakes Physical Features Human Experiences

History

Exploring plates tectonic theory – Alfred Wegener continental drift

Literacy

Writing a narrative to entertain.
Writing a newspaper and a biography based on the moon landing in 1969.
Drawing inferences on characters thoughts and feelings.
Discussing how authors affect their readers.
Write and perform poems.
Discussing themes across a wide range of books.

<u>PSHE</u>

Making profit Spending money Public services Assertiveness Online communication Responsibilies I have at home, school and in the community

Computing

Researching information for the Space topic unit.

Maths

Read, write, compare and order numbers to 1,000,000

Rounding whole numbers

Special numbers

Add and subtract numbers larger than 4 digits

Multiply and divide whole numbers by 10, 100 and 1,000

Multiply in multiples of 10, 100 and 1,000 Order, compare, add and subtract fractions

<u>Science</u>

Changes to materials Explore the effect of the movement of celestial bodies

Gravity and how mechanisms work

Music

Appreciate the wide range of music that has been inspired by space.

Year 5: Autumn Has our Planet finished evolving?

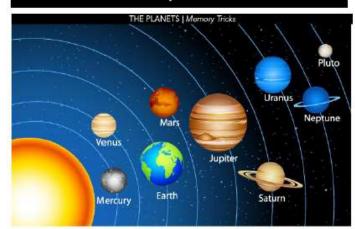
Year 5 Autumn: Has our Planet finished evolving?			
Literacy	Maths		
Writing	Number – Place Value		
Planning	✓ Read Roman numerals to 1,000		
 Identify the audience and purpose of the writing, selecting the appropriate form and using other 			
similar writing as models for their own.	✓ Read and write numbers to 1,000,000 and determine the value of each digit		
 Develop characters and settings inspired by the reading pupils have done independently and as a 	✓ Count forwards and backwards in powers of 10		
class. Draft & Write	✓ Compare and order numbers to 1,000,000		
Selecting appropriate grammar and vocabulary, understanding how such choices can change and	 Round any number to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 		
enhance meaning	1,000,000		
✓ Describing settings, characters; using dialogue to convey character and advance action.			
✓ Use expanded noun phrases to convey complicated information concisely.	Number – Addition and Subtraction		
 Use a wide range of devices to build cohesion within paragraphs. 	 Add and subtract numbers mentally with increasingly larger numbers 		
✓ Using further organisational and presentational devices to structure text and to guide the Reader	✓ Add and subtract numbers with more than four digits, using formal written		
[for example, headings, underlining]	methods		
 Use the correct tense consistently in writing. Recognise the difference between formal and informal language. 	 ✓ Solve addition and subtraction multi-step problems in contexts, decided 		
 Recognise the difference between formal and informal language. Use a thesaurus. 			
 Prepare poems to read aloud and perform using intonation and expression. 	which operations and methods to use and why		
Evaluate & Edit	 Use rounding to check answers to calculations and determine, in the context 		
Proof-read for spelling and punctuation errors and making changes to vocabulary to enhance	of a problem, levels of accuracy		
effects.	Numbers – Multiplication and Division		
✓ Assessing the effectiveness of their own and others' writing	✓ Identify multiples and factors, and common factors of two numbers		
 Ensuring the consistent and correct use of tense throughout a piece of writing 			
 Ensuring correct subject and verb agreement when using singular and plural. 	 Solve problems involving multiplication and division, including using their 		
Grammar	knowledge of factors and multiples, squares and cubes		
Pupils in Y5 need to be able to identify, know and use the following:	 Know and use the vocabulary of prime numbers, prime factors and 		
 Indicating degrees of possibility using adverbs. Relative pronouns and relative clauses beginning with who, which, where, when, whose, that, or 	composite (non-prime) numbers		
an omitted relative pronoun	 ✓ Establish whether a number up to 100 is prime and recall prime numbers up 		
 Parenthesis (bracket and dash) 			
 Devices to build cohesion within a paragraph [for example, then, after that, this, firstly] 	to 19		
Linking ideas across paragraphs using adverbials of time [for example, later], place [for example,	✓ Recognise and use square numbers and cube numbers, including the correct		
nearby]	notations		
Reading	✓ Multiply and divide whole numbers and those involving decimals by 10, 100		
✓ Ask questions to improve understanding of texts.	and 1000		
Summarise ideas drawn from more than one paragraph, identifying key details			
 Use age appropriate dictionaries to check the meanings of words Discuss how outbors use varied contenants and descriptive language to affect the reader. 	 Multiply and divide numbers mentally, drawing upon known facts 		
 Discuss how authors use varied sentences and descriptive language to affect the reader. Explain and discuss understanding of reading. 	Fractions		
 Make book recommendations, giving reasons for choices 	 Identify, name and write equivalent fractions 		
✓ Use an age appropriate dictionary to check spelling and meanings	✓ Recognise mixed numbers and improper fractions and convert from one to		
✓ Learn a poem by heart.	the other		
✓ Retrieve, record and present information from non-fiction	 ✓ Write fractions >1 as a mixed number 		
Key vocabulary:			
Cohesion, relative pronoun, relative clause, summarise, proof-read and edit, parenthesis, dialogue,	 Compare and order fractions whose denominators are all multiples of the 		
character, formal, informal, slang, standard English	same number		

	 Add and subtract fractions with the same denominator and denominators that are multiples of the same number Key Vocab: Roman numerals, digit, place value, negative numbers, rounding, prime number, square number, cube number, multiply, round, divide, fraction, compare, order, mixed number, improper fraction
Year 5 Autumn: Has our Planet finished evolving?	

Geography	Science	Music
Locations	Properties and changes of materials:	Appreciate
✓ Locate the world's countries, using maps to focus on North and	✓ Group materials based on their properties	✓ Listen and respond to Holst's The Planets Suite
South America. Identify the key physical characteristics with focus	 Investigate how some materials dissolve in water to form a solution 	 Listen to the playlist that accompanies The Jamie Drake Equation
on volcanoes	 Explore how mixtures might be separated 	Perform and Share
 identify the position and significance of Arctic and Antarctic Circle, 	 Conduct comparative and fair tests to give reasons why everyday materials 	 Perform the song Livin on a Prayer using voices and instruments
the Prime/Greenwich Meridian and time zones	are used for a particular use	Play, Sing and Create
Key vocabulary: pole, meridian, continent, Arctic, Antarctic, hemisphere	 Demonstrate that dissolving, mixing and changes of state are reversible 	\checkmark Learn to sing the Charanga song 'Livin on a prayer'
Human and Physical	 Explore and explain that some changes result in the formation of new 	 Improvise using voices and/or instruments within the song.
✓ Use geographical vocabulary to refer to volcanoes	materials	Key vocabulary: Rock music, song structure, lead vocals, amplifier,
Key physical vocabulary: mountains, volcanoes, earthquakes, dormant,	 Investigate how lava and molten rock are part of the process of creating 	backbeat, crescendo
active	new rocks	Computing
Skills	Key vocabulary: hardness, solubility, transparency, conductivity, electrical,	Information Technology – Search Technology
Use maps, atlases, globes and digital/computer mapping to locate	thermal, magnets, filtering, sieving, evaporating, saturation, reversible,	✓ Access a search website
countries and describe features studied	irreversible, comparative, fair test	 Identify key information to create search request
History	Earth and Space	 Identify appropriate and inappropriate websites to access
	\checkmark Describe the movement of the Earth and planets in relation to the Sun – link	 Identify reliable and unreliable information
Chronology of events ✓ Research and plot the different theories and new evidence on a	to DT	 Create a report about volcanoes
timeline	 Explain how the rotation of the Earth on its axis causes day and night 	Information Technology – Using a range of software
Key vocabulary: theory, conjecture, evidence, geologists, landmass		
(Pangaea)	Key vocabulary: solar system, planets, celestial body, orbit, rotate, axis,	 Add, reposition, delete, alter digital content Save, open and print the report
Comparing and contrasting periods and happenings	geocentric	•••••, •••••••••••••••••••••••••••••••
	Forces \checkmark Explain that unsupported objects fall towards the Earth because of gravity	Key vocabulary: Website, request, search, appropriate, inappropriate,
theory		reliable, unreliable, information, access, save, open, print, reposition, alter,
Key vocabulary: predecessor, hypothesis	 Understand how gravity affects the direction that lava flows 	digital content, report
Change and continuity	 Identify the effects of air resistance, water resistance and friction 	RE
✓ Discuss how the past has influenced the present and how the	 Understand that mechanisms allow a smaller force to have a great effect 	Christianity
present will shape the future	Key vocabulary: resistance, friction, levers, pulleys, gears, springs	 Explore the variety of different Christian communities
Key vocabulary: prediction, theorise	Art	<u>Hinduism</u>
Cause and effect	Media: Painting	 Explore Hindu communities in different countries
✓ Draw simple conclusions as to why change has happened	Appreciation:	Key vocabulary: Communities, belief, denominations, immigration, colonial,
Key vocabulary: question words "who, what, why, when, where, how"	Artist: Robert McCall	culture, festivals
Historical enquiry and forming conclusions from a variety of sources	✓ To consider the purpose of the art	Outdoor Learning
✓ Debate the different theories	✓ To use art as a stimulus for their own art explaining where inspiration was	Research
✓ Interpret the evidence given	sought from	 Research different weaving techniques
 Analyse which sources are the most reliable 	Exploring and developing ideas:	 Research which materials can be used for weaving
Key vocabulary: sources, reliability, analysis, primary sources, secondary	 Explore different painting techniques to express mood or emotion 	Design
sources	Investigating and making art:	 Design a garden wind chime
DT	 Use a range of tools to apply paint to different surfaces 	Create/ Evaluate
Research:	 Investigate the effect of light and colour, texture and tone on natural and 	 Create the wind chime using available materials and the weaving
 Find out how linear and cylindrical CAMS work. 	manmade objects	technique
Design:	Evaluating and developing art:	Key vocabulary: weave, wind chime, decoration, string, sticks, hanging
 Design and sketch an orbit of the Sun, Moon and Earth and label 	✓ To explain and give reasons why art techniques were chosen	<u>PSHE</u>
the CAMs used for rotation around each other.	 To refine and adapt work to reflect the intended purpose 	Rights and Responsibilities: How can my voice and actions leave an impression? ✓ Facts and opinions
<u>Create:</u>	Key vocabulary: Surfaces, techniques, refine, tone, effect, mixing, shade, natural,	 Pacts and opinions Making profit and spending money
✓ Make a small-scale planetary orbit which includes the Sun, Moon	mood, emotion, manmade	✓ Public services
and Earth.	MFL	Me and My Relationships: Are all relationships the same? Vegotiation, compromise and resolution
 Include a linear or cylindrical CAM in the model. 	Oracy	 Negotiation, compromise and resolution Assertiveness and coping with risky situations
Evaluate:	✓ Listen for specific words and phrases	✓ Communication online
✓ Throughout the process, test if the CAM is functioning correctly	 Recognise and respond to sound patterns and words 	Key vocabulary: community, credit, loans, debt, duty communication, assertive, aggression, passive,
and adapt if necessary.	Literacy	emotional needs DE
Key vocabulary: Evaluate, design, create, suitable, purpose, prototype,	Read and understand a range of familiar written phrases	PE ✓ Health. Fitness & Wellbeing – Circuits
combine, mechanism, circular CAM	Intercultural understanding	
	✓ Locate country/countries where the language is spoken	✓ Control/Pass & Receive/Target – Football
	Key vocabulary: See homework Books for full list of vocabulary and translations	✓ Catching/Throwing/Agility – Tag Rugby
		 Catching/Throwing/Target/Strategy – Netball

Has Our Planet Finished Evolving?

The planets



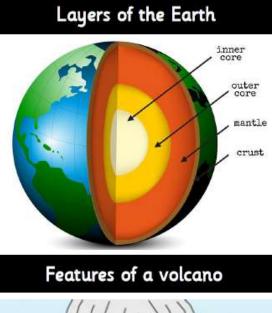
My, Very, Easy, Method: Just, Set, Up, Nine, Planets

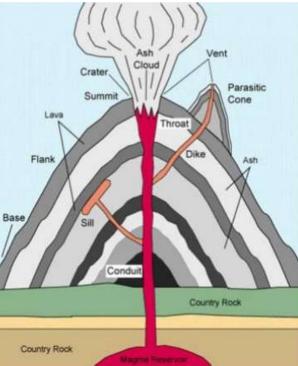
The Earth, Moon and Sun

Earth

The Earth rotates (spins) on its axis. It does a full rotation once in every 24 hours. At the same time that the Earth is rotating, it is also orbiting (revolving) around the Sun.

It takes a little more that 365 days to orbit the sun. Daytime occurs when the side of the Earth is facing towards the Sun. Night occurs when the side of Earth is





Key Vocabulary

Active/ Dormant/ Extinct Volcano	The category given to different volcanoes based on when the last erupted.	
Crater	A large bowl shaped cavity in the ground.	
Earthquake	A sudden violent shaking of the ground that causes destruction.	
Richter Scale	A numerical scale for measuring the severity of an earthquake	
Tectonic Plate	The pieces of the Earth's crust that join together to make the Earth's surface.	
Gravity	The force that attracts objects to the centre of the Earth.	
Orbit	The curved path of an object or spacecraft around a star, planet or moon.	
Astronomy	The branch of science that ex- plores space.	
Friction	The resistance that a surface or object encounters when moving over another.	
ISS	The International Space Station	
Star	A fixed luminous point in the sky, such as the sun.	