Phase: Y2

### **Stage:** Discover (STEM)

Project Plan Term: Spr1/Spr2

Character Education Theme: Magical Carpet Ride Enquiry question: Can we explore wherever we want ? English Application Non chronological reports Holiday brochures Interviews/questionnaires Famous people fact files lists		Key Vocabulary (Schema):	Subject, Scheme, Unit	• Explore and compare the differences between		
		Temperature, rainfall, wind direction, sunlight hours, thermometer, rain gauge,	Science – Developing Experts: Living Things			
		<ul> <li>wind sock, compass, North, South, East, West, seasons, Spring, Summer, Autumn, Winter, symbols, meteorological, average, total, compare, daily, weekly, monthly, seasonal, Met Office.</li> <li>Symbols, compass, direction, north, South, East and West human, physical, map, Ariel, features, photographs, perspective, near, far, schema, compare, contrast, seas, oceans, continents, cities, capital cities, population, climate, produce, rainforest, influence.</li> </ul>	<ol> <li>Compare the differences between things that are living, dead, never been alive</li> <li>Identify and name a variety of plants in a microhabitat</li> <li>Design a suitable microhabitat where living this could survive</li> </ol>	<ul> <li>4. Find out what animals eat in their habitats to survive</li> <li>5. Understand food chains</li> <li>6. Understand the journey food makes from the farm to the supermarket</li> </ul>	<ul> <li>things (living, dead, never been alive)</li> <li>describe habitats provide the basic needs animals and plants, and how they depend on each other.</li> <li>Identify and name a variety of plants and animals in habitats/microhabitats.</li> </ul>	
Maths Application		Geography S&K	Teach Computing: Programming A – Robot	algorithms	• Choose a series of words that can be enacted	
Bar charts Problem solving in terms of supplies/fuel needed/costs of exploration vehicles		Compare and contrast with a non-European country – Brazil. To use maps, including historical, atlases and globes to identify the UK and its countries. Name and locate the world's seven continents and five oceans. Use basic geographical vocabulary to refer to human and physical features	<ol> <li>Describe a series of instructions as a sequence</li> <li>Explain what happens when we change the order of instructions</li> <li>Use logical reasoning to predict the outcome of a program</li> </ol>	<ul> <li>4. Explain that programming projects can have code and artwork</li> <li>5. Design an algorithm</li> <li>6. Create and debug a program they have written</li> </ul>	as a sequence • Create algorithms for a range of sequences • Explain choices made in a mat design • Create and explain an algorithm • Create and debug a program	
STEM Application		and recognise them in Ariel photographs and plan perspectives.	RE – SACRE: Who is a Muslim and what do	• recognise the significance of some objects and		
Links with habitats which are not suitable for humans How humans must adapt to explore certain habitats as animals can and do. For example wearing wet suits and having breathing apparatus for exploring the oceans.			<ol> <li>What is a mosque, and what happens there?</li> <li>How and why do Muslims pray and worship at the mosque?</li> <li>Mosques near where we live: What can we find out?</li> </ol>	<ul> <li>4. What can we learn from Muslim holy words?</li> <li>5. What happens at celebration of Eid-ul-Fitr, and why?</li> <li>6. Who is a Muslim, and what do they believe?</li> </ul>	<ul> <li>places to Muslims</li> <li>make links between what the Holy Qur'an s and how Muslims behave</li> <li>identify some ways Muslims mark Ramadar and celebrate Eid-ul-Fitr and how this might make them feel</li> </ul>	
Retrieval practices/Assessment:	Learning Activities:		PSHE – Jigsaw: Dreams and Goals		<ul> <li>setting realistic goal and think about how to achieve it</li> <li>persevering</li> <li>recognise who I work well with and why</li> <li>recognising what works well in a group dynamic</li> <li>Exploring Feelings Through Music</li> </ul>	
Mind map pre project to assess project baseline.Website for: · Sunlight hours (use sunrise and su Weekly; look at the highest and lowest tempera project baseline.		direction – reinforce knowledge of compass directions Refer to the Met Office nset times). Ture for the week. Calculate the average temperature (children could use calculators and sunlight hours for the week. Record this data on the monthly chart.	<ol> <li>Goals to Success</li> <li>My Learning Strengths</li> <li>Learning with Others</li> </ol>	<ul><li>4. A Group Challenge</li><li>5. Continuing Our Group challenge</li><li>6. Celebrating Our Achievement</li></ul>		
Recall continents, world oceans and know the		e average monthly temperature (children could use calculators given the formula).	Music – Charanga: How does music make t			
<ul> <li>difference between the UK and a contrasting country.</li> <li>Total the amount of rainfall and sunlight hours for Global Study including Map skills;</li> <li>1. Find Scotland, Wales, Northern Ireland</li> <li>2. Find and name the UK bodies of water</li> <li>3. Name the continents and seas of the w</li> <li>4. Locate Brazil on a word map. Look at n</li> <li>5. Explore then compare human and physical seases of the sease of</li></ul>		(English Channel, Irish Sea, North Sea, Atlantic Ocean. orld.	1. Rainbows (Part 1) 2. Rainbows (Part 2) 3. Hands, Feet, Heart (Part1)	4. Hands, Feet, Heart (Part1) 5. All Around the World 6. Assessment Checkpoint	<ul> <li>Singing with expression</li> <li>Listening with concentration</li> </ul>	
	Outdoor Learning:		PE – Real Dance – Cognitive Skills	<ul> <li>Changing speed and level of actions</li> </ul>		
	-	n to explore the outdoor area. (links to ICT Algorithms) alive.	Order instructions, movements and skills 1. Give your dance a shape 2. Hand in hand we move	<ul><li>4. Turn me turn you</li><li>5. Silky smooth moves and grooves</li><li>6. Time to show your best</li></ul>	<ul> <li>Select movements in time with music</li> <li>Apply these skills and form their own dances</li> </ul>	
			3. Round and round			

Foundation Subject Overviews Key Stage One	Constraints       Image: Constraints         Constraints       Image: Constrants         Constraints	History	Physical Eduction Swimming & Water Safety Winning & Water Safety all schools most provide a winning instruction activit in Apy Stoppe 1 or May Stoppe 1. all schools most provide a winning instruction activit in Apy Stoppe 1 or May Stoppe 1. all schools most provide a strain and prodictedly over a dispect of the set of the school of the scho	Computing Key Stage One and the program set how they are implemented as programs on digital devices, and the program escence by ithorning precise and unambiguous matructions devices, and the program escence by interview of an unambiguous matructions to set topolary strates (mage programs, store, an enterhology state) and restration and and an enterhology beyond school an enterhology beyond school and restration school generation privates destrip water to point neuration school privates cateful water to point here and support school and restration school privates	Design & Technology Key Stage One Design Longenter (Construction), spearing products for themselves and other overs based on design citrates and other overs based on design citrates and other overs based on design citrates and other overs based on their lakes through taking, drawing, templates, mock-ups and, where appropriate her lakes through taking, drawing templates, mock-ups and, where approximation and communication technology and and the set of the and use a range of tools and explanent to perform practical effort from and use a wide range of trading to their characteristics construction materials, and ingredients, according to their characteristics construction materials, and ingredients, according to their characteristics <b>Findue</b>
	Geogram Key & Key & Location amme and o the amplitude of the second the amplitude of the second of t	Histh Key S Pupils 's Pupils' a chrow p a chrow p adiljeven adiljeven they a they a they a they the the the the the the the the the the the the the the the the	Physic Physics	Key 5 Key 2 Key 6 evice treket evice trevel tre	Design Rey 5 Rey 5 Rev and 0 and 0 and 0 server ser



& DEVELOPMEN
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		1.What is Architecture? 2.Introduce Hudertwasser 3.Making Architecture
Golden Rules: Ready, Respect, Safe	Project Concepts: Integration, Resilience, Change, Wisdom	4.Making Architecture
School Values: Happiness, Friendship, Belonging, Resilience, Pride,		5.Making Architecture
Honesty, Individuality, Creativity		6.Present, reflect and review

Explores: • Drawing • Carbon printing

 Project Plan
 Term: Spr1/Spr2
 Phase: Y2
 Stage: Discover (STEM)

 Key principles: Unique child, positive relationships, enabling environment, learning & development

### Grounding Texts & Favourite 5 x 2

Grounding Text 1VocabularyKey QuestionsContentTitle: First to the Tap Author: David HillSummit Peak Tramping Creases Biolecians Expedition Pioled Himalayss Oxogen Roaring gales ShiveedWhy was formal Hillary famous? What did himes now use to make their climb care is even what was the expedition dangerous their did users on was to make their climb care is even what was the even what was the expedition dangerous Pioled Himalayss Oxogen Roaring gales ShiveedFordoatFordoat Creases ShiveedGrounding Text 2VocabularyKey QuestionsContentTitle: Neil Armstrong Author: Jane BinghamAttonaut Module Service Module University Aritight Gravity es boarder on was full? Hive did he study?Attonaut Module Service Module What did he study?Attention on was service module What did he study?FocusInter. Service Module University Aritight Gravity es boarder on clean Service Module Service Modu					
Author: David HillPeak Transping Orrevasces Gladers Expedition Pioldad Himalayas Orregasces Crevasces Gladers Expedition Pioldad Himalayas ShiveredIn what ways was the expedition dangerous. What doils us from his early life that he would have deen a famous explorer?Tenzing: Changes in equipment from then to now. What tells us from his early life that he would have deen a famous explorer?Tenzing: Changes in equipment from then to now.Grounding Text 2VocabularyKey QuestionsContextThe Nell Armstrog Author: Jane BinghamAstronaut Command Module Service Module University Artight Gravity Bookler rockets See of Transpility DescendedNet RegusceContextFeorurite Text 1aFeorurite Text 2aFaourite Text 2aFaourite Text 3aAstronaut Command Module University Artight Gravity Bookler rockets See of Transpility DescendedFaourite Text 3aFaourite Text 3aFeorurite Text 1aThie: A Send Is SleepyTitle: Transpilie Town and David RobertsInte: the Jume Text 4aAuthor: Edward Leah Luto: Clanna Huts Aston and Syvia LongInte: Tujie Donaldson and David RobertsAuthor: Pier H Reynolds	Grounding Text 1	Vocabulary	Key Questions	Content	
Oxygen Roaring gales Shivered RidgeOxygen Roaring gales Shivered RidgeKey QuestionsContentGrounding Text 2VocabularyKey QuestionsContentAuthor: Jane BinghamAstronaut Service Module Lunar module Mixind University Gravity Booster rockets Booster rockets Booster rockets RidgeMat klind of person was Nell? How do we know? When did he earnt of fly? What and what did he study? What and what did he study? What and what did he study? What and what did he study? Mat and what did he study?Nell Armstrong as an explorer Nell Armstrong as an explorer Service Module Lunar module Mixind University Booster rockets Booster rock		Peak Tramping Mountaineers Crevasses Glaciers Expedition	In what ways was the expedition dangerous. What do climbers now use to make their climb easier? What tells us from his early life that he would have		
IndexIndexIndexIndexIndexIndexTitle: Neil Armstrong Author: Jane BinghamAstronaut Command Module Service Module Lunar module Mankind University Arigight Gravity Booster rockets se of Tranquility DescendedWat kind of person was Neil? How do we know? When did he learn to fly? What and what did he study? Markind di he study? Markind University Arigight Gravity Booster rockets se of Tranquility DescendedAtmeline of events in his life. Neil Armstrong as an explorer What and what did he study? What and what did he study?Atmeline of events in his life. 		Himalayas Oxygen Roaring gales Shivered Ridge			
Author: Jane BinghamCommand Module Service Module Lunar module Mankind University Airtight Sea of Tranguility DescendedHow do we know? When did he learn to fly? What and what did he study? What and what did he study?Neil Armstrong as an explorerFavourite Text 1aFavourite Text 2aFavourite Text 3aFavourite Text 3aTitle: The Jumbiles Author: Edward LeahTitle: A Seed Is SleepyTitle: Trannosaurus DripTitle: IshAuthor: Edward LeahAuthor: Dianna Hutts Aston and Sylvia LongAuthor: Julie Donaldson and David RobertsAuthor: Peter H Reynolds	Grounding Text 2	Vocabulary	Key Questions	Content	
Author: Jane BinghamService Module Lunar module Mankind University Airtight Gravity Booster rockets Sea of Tranquility DescendedWhen did he learn to fly? What and what did he study? What and what did he study?Favourite Text 1aFavourite Text 2aFavourite Text 3aFavourite Text 4aTitle: The JumbliesTitle: A Seed Is SleepyTitle: Trannosaurus DripTitle: IshAuthor: Edward LeahAuthor: Dianna Hutts Aston and Sylvia LongAuthor: Julie Donaldson and David RobertsAuthor: Peter H Reynolds	Title: Neil Armstrong				
Image: series of the series	Author: Jane Bingham	Service Module Lunar module Mankind University Airtight Gravity Booster rockets Sea of Tranquility	When did he learn to fly?	Neil Armstrong as an explorer	
Author: Edward Leah       Author: Dianna Hutts Aston and Sylvia Long       Author: Julie Donaldson and David Roberts       Author: Peter H Reynolds	Favourite Text 1a	Favourite Text 2a	Favourite Text 3a	Favourite Text 4a	
	Title: The Jumblies	Title: A Seed Is Sleepy	Title: Tyrannosaurus Drip	Title: Ish	
Focus Focus Focus Focus	Author: Edward Leah	Author: Dianna Hutts Aston and Sylvia Long	Author: Julie Donaldson and David Roberts	Author: Peter H Reynolds	
	Focus	Focus	Focus	Focus	



	Application
d	SHINE- timeline of his life Hashtags Emojis on the journey up Mount Everest
	Application
	SHINE- timeline of his life Hashtags Emojis on the mission to the moon
	Favourite Text 5a
	Title: A Butterfly is Patient Author: Dianna Hutts Aston and Sylvia Long
	Focus



Vocabulary: sieve, winter's morn, dro green voyage, warbled, coppery, ech cranberry, jack-daw, stilton, yeast. Theme: Nonsense poem exploring rh	ooing, crockery,		d, reveal, protective, inventive, nate, sprout, photosynthesis, nd germination.	Vocabulary: hooted, grisly, grim, muttered, murme thrilled, grumbled, spluttering heroic. Theme: Rhyme and humorous vocabulary.	ured,	Vocabulary: crumpled, gallery, v energised, inspired, yonder, por Theme: Trying your best – thing	der, wander, savoured	pollination, pre nourishment, t Theme: Explana	rysalis, metamorphosis, transferred, dators, spectacular, nectar, proboscis, ransparent, exoskeleton. ation of life cycle of a butterfly. Exploring as of butterflies.
Favourite Text 1b		Favourite Text 2b		Favourite Text 3b		Favourite Text 4b		Favourite T	ext 5b
Title: The Scarecrow's Wedding		Title: Hidden Figures		Title: The Night Pirates		Title: The song of the Dinosaurs     Title: The World's most pointless and the Dinosaurs		d's most pointless animals	
Author: Julia Donaldson		Author: Margot Lee Stett	erly	Author: Peter Harris and Deborah Allwright		Author: Patricia Hegarty		Author: Philip E	Bunting
Focus		Focus		Focus		Focus		Focus	
lumpy, vase, squirly, pail, foolishly, ashamed, staggering, splutter, tumbled, flickered.analyse, orbit, trajectorieTheme: Rhyme and humorous vocabulary.Theme: Space exploratio Integration.			Vocabulary: stealthy as shadows, stealing away, di gaped, goggled Theme: Project specific vocabulary, exploring and	goggled thrashi predate: Project specific vocabulary, exploring and maps.		neralding, valley's scurried, bivore, flourished, terrain, nes, prime, melody. ne life of dinosaurs. ne line.	bodyweight, cir delicacies, plun Theme: Non-fic	istaceans , juvenile, despises, superbirds, rculation, navigators, aftertaste, deform, nage. rtion text exploring the variety of weird and ries on our planet.	
Thomas Magical Carpot Bida			Key Vocabulary (Schema):			Subject Scheme	Init 9 Losson Focus		Skills + Knowledge
Theme: Magical Carpet Ride         Enquiry question: Can we explore wherever we want ?         English Application         English Application         Non chronological reports         Interviews/questionnaires         Famous people fact files         Lists		Temperature, rainfall, wind direction sock, compass, North, South, East, ' symbols, meteorological, average, the Met Office. Similarities, differences, chronologi	on, sunlight hours, thermometer, rain gauge, wind West, seasons, Spring, Summer, Autumn, Winter, total, compare, daily, weekly, monthly, seasonal, cal order, historical events, significant people, mary and secondary sources, national and	Science – Developing Experts: Habitats Around the World• Identify that most livi1. Learn about habitats5. Discover the Arctic and Antarctic habitat• Identify that most livi2. Appreciate that environments are constantly changing6. Create a model of a habitat• Identify that most livi		<ul> <li>Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend</li> </ul>			
SHINE links eg Hashtags, Emojis a	nd Impression/eviden	ce	History 69 K		Comput	ing Tooch Computing Data	Information Distogram	c (Mathe Link)	Poprocent record and compare data
Time LinesHOrder of eventsIrHistorical problem solvingirDataE		international achievements Explorers	als who have contributed to national and	Computing – Teach Computing: Data & Information – Pictogram1. Counting and comparing using tally charts4. Select objects by attribute comparisons2. Representing objects as pictures 3. Create a pictogram5. Recognise people by attribute comparisons		e and make	<ul> <li>Represent, record and compare data using tally charts</li> <li>Use pictograms to answer questions</li> <li>Collect data, create pictograms and draw conclusions</li> </ul>		
STEM ApplicationpassLinking explorers to their habitats they go to do.Investigate famous inventors who allowed explorers to go furtherTo investigate famous inventors who allowed explorers to go to new placessimeand survive.Unvestigate famous inventors		<ul> <li>Develop an awareness of the past, using common words and phrases relating to the passage of time.</li> <li>Investigate significant national, historical events beyond living memory.</li> <li>To know where people and events fit into a chronological framework and identify similarities and differences between ways of life in different periods.</li> <li>Understand some of the ways in which we find out about the past and identify some of the ways in which it is represented.</li> <li>To use a variety of sources.</li> </ul>		1. What o	CRE: Who is a Christian and wh do the miracles of Jesus teach us what is important to Christians? .)	at do they believe? (pt2) 3. Why do Christians pray? 4. Part 2 5. Who is a Christian?	(Part 1)	<ul> <li>Recognise symbols of belonging from their own experience</li> <li>Recognise symbols of belonging for Jews and Muslims</li> <li>Compare and contrast ceremonies between faith groups</li> </ul>	
Retrieval practices/Assessment: Create a model of a habitat.Learning Activities (including outdoor): Weather; Daily recording of; Temperature · Rainfall · Wind d for: · Sunlight hours (use sunrise and sunset times Weekly; look at the highest and lowest temperature)		erature · Rainfall · Wind dir sunrise and sunset times). est and lowest temperature	ection – reinforce knowledge of com e for the week. Calculate the average	temperature (children could use calculators given	1. Being I 2. Being I 3. Medici	Relaxed ine Safety	4. Healthy Eating 5. Healthy Eating <b>6.</b> Happy, Healthy Me!		<ul> <li>Understand ways to keep my body healthy and about relaxation</li> <li>Understand how some medicines work and how to use them safely</li> <li>Decide which foods are healthy and why</li> </ul>
	<ul> <li>the formula). Total the amount of rainfall and sunlight hours for the week. Record this day Monthly; look at the monthly data. Calculate the average monthly temperature (children Total the amount of rainfall and sunlight hours for the month. Add the monthly chart to Historical Enquiry; Explorers <ol> <li>Learn key facts and events about Christopher Columbus.</li> <li>Add to existing timelines and explore his significance to modern day. Actions and explore his significance to modern day.</li> </ol> </li> </ul>		n could use calculators given the formula). the year grid in the correct season.	1. Helpin 2. Helpin 3. The M	Charanga: How does music he g Each Other (Part 1) g Each Other (Part 2) usic Man (Part 1) usic Man (Part 2)	Ip us understand our neig 5. Let's Sing Together 6. Assessment Checkpoint	hbours?	<ul> <li>Inventing a Musical Story</li> <li>Singing with expression</li> <li>Listening with concentration</li> </ul>	

## Overviews

# Key Stage One

### graphy

continents and five ocea istics of the four countri-and its surrounding enviro

symbols in a ke heir school and

## Physical Eduction

f of heat

Jumping, throwing and agilty and co-ordination, clivities

/ they are implemented as by tollowing precise and u

### T&T

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### Project PlanTerm: Spr1/Spr2Phase: Y2Stage: Discover (STEM)Key principles: UNIQUE CHILD, POSITIVE RELATIONSHIPS, ENABLING ENVIRONMENT, LEARNING Sir Edmund Hillary – First to the Top. PE – Real PE: Creative Skills 3. Edmund Hillary 2. 4. Coordination and counter balance. 5. The Space Race and its significance to today. Neil Armstrong. 1. Getting around us 6. Neil Armstrong 2. 2. All routes Getting around us 3. 4. Lean Away 5. Lean on Me Roller Ball 6. School Values: Happiness, Friendship, Belonging, Resilience, Pride, Honesty, Project Concepts:: Integration, Resilience, Change, Wisdom D&T – Projects on the Page: Wheels & Axles Individuality, Creativity 1. Pre-assessment 2. Explore axles & wheels in toys 3. Fixed/Free axles demonstration 4. How to make an axle holder 5. Design a moon buggy 6. Make a Moon Buggy and evaluate

6& DEVELOP	MENT Balls skills Counter balance with a partner Make up their own rules and versions of activities
	Explores: • Mark making on fabric • Explore texture • Performance art

