Year 5 & 6 Theme: Out of This World (Science Focus) Length of time: 10 weeks Big question: Is there anybody out there? Hook from our 5 star pledge/enrichment programme: Planetarium at 'We The Curious', Bristol?

Key learning Outcome for theme		<u>Maths links</u>	Key Vocab essential to comprehension and learning
National curriculum objectives Science: Spr1) Earth and Space Pupils should be taught to: • describe the movement of the Earth, and other planets, relative to the Sun in the solar system • describe the movement of the Moon relative to the Earth describe the Sun, Earth and Moon as approximately spherical bodies • use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky. Spr2) Forces	National curriculum key skillsScience:Can I find out about the way that ideas about the solar system have changed?Can I compare the time of day at different places on the Earth? (link to computing and data handling and Geography)Can I create models of the solar system?Can I report and present findings from enquires, in oral and written forms such as displays and other?	Measure, scaling and ratio Time –12/ 24hr	Earth, planets, Sun, solar system, Moon, celestial body, sphere/ spherical rotate/ rotation, spin, night and day, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto, 'dwarf' planet, orbit, revolve, geocentric model / heliocentric model, shadow, clocks, sundials, astronomical clocks, phases, wax/wane
 Pupils should be taught to: explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object identify the effects of air resistance, water resistance and friction, that act between moving surfaces recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect. 	Can I explore falling objects and raise questions about the effects of air resistance? Can I make a variety of parachutes to determine the most effective design? Can I record data and results using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs?	Stop clock timers, data handling – discrete data graphs, result tables	Fall, push, pull, gravity, gravitational pull, force, air resistance, water resistance, friction, moving surfaces, mechanisms, levers,

		1	
	Can I use tests results to make predictions to suggest		pulleys, gears,
Geography: (Locational Knowledge)	further comparative and fair tests?		magnetic/magnetic
Use google maps to look at Earth from space			force, magnets, attract, poles
Identify main continents	<u>Geography:</u>		attract, poles
Investigate different continents by area/biome		8 Compass directions,	
Name at least three countries and capital cities on each	On a world map, can I locate the main countries in Africa, Asia and Australasia/Oceania and identify their main	longitude and latitude	
continent	environmental regions, key physical and human	references	
(eg, from an alien's point of view, describe Earth and focus	characteristics, and major cities?		
on 'wonders'; use longtitude and latitude refs to locate)			
	Can I identify the position and significance of Equator and		
Art/DT:	the Tropics of Cancer and Capricorn?		
Pupils should be taught to develop their techniques,	Art/DT:	Drawing accurate	
including their control and their use of materials, with creativity, experimentation and an increasing awareness	Can I explore an increasing range of marks and textures	circles - 2 point	
of different kinds of art, craft and design.	with a variety of media? Use findings in their work both	compass	
or unreferit kinds of art, craft and design.	observational and expressive.		
	Can I continue to develop vocabulary to name colours		
Use marbling techniques to create various space-themed	using primary and secondary colour names together with		
pieces	other words. eg. 'dark reddish purple?		
Block printing to illustrate the phases of the moon			
Rockets (eg https://www.youtube.com/watch?v=jl-			
HeXhsUlg&vl=en)			
Computing: (link to E-safety week)			
Multimedia presentation (using PowerPoint, Adobe Spark, ThingLink, Padlet, Prezi, Keynote-Apple only, Canva and	Computing:		
Microsoft Sway or similar) on continents and countries	Can I use text, photo, sound and video editing tools to		
within	refine my work?		
Data Handling software to compare country within	Can I use the skills I have already developed to create		
chosen continent with UK (eg, population, climate, size,	content using unfamiliar technology?		
GDP, etc)	Can I select, use and combine the appropriate technology tools to create effects that will have an impact on others?		
	Can I select an appropriate online or offline tool to create		
	and share ideas?		
	Can I review and improve my work and support others to		
	improve their work?		
	•	•	

<u>RE:</u> What does it mean to be a Muslim in Britain today?	RE: Can I explain the impact of and connections between practices? Can I give coherent accounts of beliefs and ideas?		
Elicitation Task: Consider life forms on other planets – is it possible? Is the	Earth the only planet able to sustain laugh? Look at Earth from	space – what makes it spe	ecial?
Other subjects not linked to this topic – PE, see separate p	anning, MFL (lightbulb languages scheme of work), link to RE,	PHSE (debates)	
Other events – Easter			