Federation of Per	nny Acres and V Ma		y Schools – Topic
	Out of this Wor		
Wide	<u>Key St</u>		Wigley 1005
 <u>Curriculum driver(s) -</u> Looking to the future of space e delving into the past. Looking at changes in technolog with black and gender personne 	y, personnel and	aims/values) – prepa of life provic experi	ivers (taken from school's key ring the children for the challenges and citizenship in the 21 st Century; ling them with new and exciting ences, encouraging them to move their 'comfort zone' and identifying
Key Question drivers What is happening in space at the m History of space travel. Women in sp What are the planets in our solar sys Visits/Visitors -	ace.	Authentic Outo Plan a display t	to develop and improve. <u>ome –</u> hat -s 'Out of this World'. Looking at exploration, art and poetry.
Space Centre - Leicester		Wigley - Drama	
	Eng		
Reading (including key texts)	Wri	ting	Spelling and Grammar
Cosmic- Frank Cottrell-Boyce – fantasy/science fiction Dr Maggie's Grand Tour of the Solar System – non-fiction explanation text Science Fiction/fantasy (Iron Man) Blackout poetry	Y3/4 write sentences with clause by using a wid connectives commas for lists Y5/6 commas for clarity		Y3/4 present perfect forms of the verb past progressive/present progressive sentence types Y5/6 active and Passive
			subjunctive modal verbs hyphens
Tiered vocabulary	bodies crescent illun waxing expanse crev	pse satellite universe ninate lunar galaxy gi rice visibility vast	bous celestial solar astronomer sundial rotate orbit axis ravity longitude crater equator phase waning ar solar system heat movement telescope
	tide journey	aracy.	
	Fract	•	
Y3/4 Make equal parts Recognise a half Find a half Recognise a half Recognise a half Recognise a half Recognise a field	Hundredths Hundredths as decimals Hundredths as decimals Hundredths on a place value grid	And and a set of	Intermediate Anterpresentation Anterpresentation Intermediate Anterpresentation Anterpresentati
Y3 vocabulary: equal, equivalent, parts, w equation, integer, non-unit fraction, numerat represent, share, group, mixed number, whol set of objects, multiply, tenth, interval, inequ	or, denominator, e number, divide,	Y5 vocabulary: e fraction, simplify, e convert, sequence, (=), whole, efficient proper fraction, imp proportion, halves, decimal, decimal pl	equivalent, numerator, denominator, home, kpand, division, improper, mixed number, order, greater than (>), less than (<), equal to , common denominator, operator, whole(s), proper fraction, fraction of amount, ratio,

Y4 Vocabulary: tenths, hundredths, equivalent, simplify, numerator, denominator, fraction, mixed number, improper fraction, simplest fraction, add, subtract, fraction of an amount, tens, ones, decimal point, tenths, hundredths, greater than, equivalent, less than, decimal, centimetre, millimetre, decimal point, 0.1, 0.01, whole number, greater than (>), less than (<), equal to (=), order, compare, convert, ascending, descending,

Y6 vocabulary: multiply, divide, decimal, decimal place (dp), reoccurring decimal, decimal place, place value, tenths, hundredths, thousandths, products, fraction, percent (%), percentage, parts, whole, decimal, fraction, divide, share, multiply, convert, compare, order, equivalent fraction, simplify, less than (>), greater than (>),

		Geometry – pro	perties of sha	ре		
Y3/4			Y5/6			
	Turns and angles		,		Measure with a protractor	
	Right angles in shapes		Identify angles	Describe position	Draw lines and angles accurately Introduce angles	
	Compare angles		Compare and order angles Measure angles in degrees	Draw on a grid	Angles on a straight line	
			Measuring with a protractor (I)	Position in the first quadrant	Angles around a point Calculate angles	
	Identify angles		Measuring with a protractor (2) Drawing lines and angles accurately	Translation	Vertically opposite angles	
	Compare and order angles		Calculating angles on a straight line	Translation with coordinates	Angles in a triangle Angles in a triangle - special cases	
	Recognise and describe 2-D shapes		Calculating angles around a point Triangles	Lines of symmetry	Angles in a triangle - missing angles	
Turns and angles Refit angles in shapes	Triangles	Describe position	Quadrilaterals	Complete a symmetric figure	Angles in special quadrilaterals Angles in regular polygons	
Rght angles in shapes Compare angles	Quadrilaterals		Calculating lengths and angles in shapes Regular and irregular polygons	Reflection	Draw shapes accurately	
Draw accurately Horizontal and vertical	Horizontal and vertical	Draw on a grid	Reasoning about 3-0 shapes	Reflection with coordinates	Draw nets of 3-D shapes	
Perallel and perpendicular	Lines of symmetry	Move on a grid				
Recognise and describe 2-D shapes Records and describe 3-D shapes		-				
Make 3-D shapes	Complete a symmetric figure	Describe movement on a grid				
V3 vocabulary	v right angle acute of	otuse, parallel, perpendicular,	Y5 vocabulary:	angle whole tu	rn right angle	acuto anglo
				•		
-	ontal, triangle, quadril			•		rees (°), clockwise,
	•	angular prism, square-based				ular, quadrilateral,
pyramid, cone	e, cylinder, sphere, edg	ges, spaces, vertices,	view, regular, ir	regular, 3D sha	pe, pyramid, sp	ohere, cone,
clockwise, and	ticlockwise, orientatior	n, north (N), south (S), east	hexagon, penta	gon, triangle, to	op view, plan vi	ew, side view,
		agonal, right angle, straight	regular and irre			
			-			
	gle, obtuse angle,					xis, vertical axis,
	, , , ,	gle, regular, irregular, interior				eflex, protractor,
angle, angle, a	acute, obtuse, reflect, ı	right angle, symmetrical,	triangle, right a	ngle, isosceles,	equilateral, sca	ilene, regular,
isosceles, scal	lene, equilateral, line o	f symmetry, reflective	polygon, quadri	ilateral, kite, pa	rallelogram, rh	ombus, trapezium,
symmetry, eq	uilateral triangle, isosc	eles, triangle, scalene	diameter, radiu	s. circumferenc	e. concentric. r	perimeter, net.
		agon, hexagonal, heptagon,	,	,		lly opposite angles,
				ieuron, cynnuer	, prisiri, vertica	ily opposite aligies,
•	• • • • • •	arallelogram, rhombus,	cuboid, cube,			
trapezium, po	olygon, parallel, perpen	idicular,				
position, horiz	zontal, vertical, up, dov	wn, left, right, coordinate,				
square, rectar	ngle, plot, vertex, verti	ces, point, grid, north (N),				
• •	• • • •	east (NE), north-west (NW),				
		prizontal, vertical, diagonal,				
•						
-		er, protractor, compass,				
degree, right	angle, straight line, acu	ite, obtuse, reflex, reflection,				
set square,						
		Scie	ence			
		(Key Vocabulary and links	s to programm	les of study)		

Y3/4

Y3/4 During the rock topic we will.....

Study rock collections and precious stones. Compare and group rocks on the basis of simple physical properties. Identify and classify rocks. Relate the properties of rocks to their uses. Observe rocks, including buildings and weathering, and explore how and why they may have changed over time. Describe how fossils are formed when things are trapped within rocks. Find out about sedimentary and igneous rocks. Recognise how soil is made from rocks and organic matter. Investigate different soils.

Vocabulary- rock, soil, granite, sandstone, limestone, marble, pebble, absorb, fossil, sedimentary, igneous, organic.

Y5/6

Use models of sun, earth and moon to show relative sizes and distances. Find out about the movement of the earth and other planets relative to the sun. Create solar system models. Use the idea of the earth's rotation to explain night and day and the apparent movement of the sun across the sky. Compare time of day at different places on the earth. Construct simple shadow clocks and sun dials to show mid-day and the start and end of the school day. Find out about Stonehenge as an astronomical clock. Research famous astronauts eg Neil Armstrong. Describe the movement of the moon relative to the earth. Research a planet and make a presentation about it.

Vocabulai	y- planet, orbit, astronaut, satellite, space station, universe, weightlessness, lunar, meteor
	Computing
<u> </u>	
	data and Safer Internet use:
	o understand how to use a blog safely to communicate with a wider audience
	o consider if what can be read on websites is always true
	o know where to get help if I see inappropriate content or have inappropriate communication
	o enter data into a graph and answer questions
• 1	o solve an investigation and present the results in graphic form Geography
	Geography
Links to t	he National Curriculum: human geography, including: types of settlement and land use,
economi	c activity including trade links, and the distribution of natural resources including energy,
food, mii	nerals and water
	oulary: agriculturist, landscape, community, settlement, vegetation, hydroponics, natural
-	, man-made resources, sustainable, indigenous, development, irrigation, terrain, natural,
	it, subterranean, congestion, land use, import, export, location.
	ain about natural resources e.g. water in the locality. Ask and respond to geographical questions
e.g. Descr	ibe the landscape. What would you need for a settlement on Mars? Where do we get energy?
Water?	
Y5/6 Desc	ribe and understand key aspects of human geography including: types of settlement and land use,
economic	activity including trade links, and the distribution of natural resources including energy, minerals,
food and	water. What resources do we trade? How has trading changed?
	History
	he National Curriculum: A significant turn in British history. Devise historically valid questions
	nge, cause and significance.
	pulary: astronomy, astronomer, atmosphere, economy, dwarf planet, Earth, equator, galaxy,
	piter, Mars, Martian, mercury, moon, Neptune, orbit, planet, Pluto, satellite, Saturn, sol,
	t, sun, Universe, Uranus, Venus, volcanologist, voyage, yestersol.
	sources of information in ways that go beyond simple observations to answer questions about the
past.	
	e comparisons between aspects of periods of history and the present day. Provide an account of c event based on more than one source.
	RE /Modern British Values
	(Using the Derbyshire Syllabus)
What doe	s it mean to be a Muslim in Britain today?
Vocabula	y: Allah, Hajj, headscarf, hijab, Islam, Islamic, jihad, jihadi, Mecca, minaret, mosque, Muhammed,
Muslim, p	rayer mat, prophet, Ramadan, salaam, the Koran, the Qu'ran, veil, yashmak
What mat	ters most to Christians and humanists?
Vocabula	y: worldview, humanism, humanists, atheist, agnostic, influential, rationality, reason, beliefs,
ethical, sy	mbol, dilemma, decisions, culture, naturalist, feminist, scriptures, afterlife, values.
	PSHE/Modern British Values
	(Using PSHE Matters))
	e and Diversity (people in space)
Being Res	ponsible
	Art
	(Key Vocabulary and links to programmes of study)
	Join, attach, paper mache, dysfunctional, culture, heritage, family, pattern, batik
	a Shonibare Aliens (3D Design)
Y5/6 Yinka	a Shonibare Aliens (3D Design)
	DT
	(Key Vocabulary and links to programmes of study)
	e a moon buggy, create design sketches. Use pneumatics to move your buggy forward.
	e a moon buggy, create design sketches. Use cams, pulleys and gears to move the vehicle.

	Music
appr	eciate and understand a wide range of high-quality live and recorded music drawn from different
	traditions and from great composers and musicians
	develop an understanding of the history of music.
enny A	cres – flute lessons. Singing – Young Voices
Nigley -	 singing – Young Voices. Listening and Appraising – Gustav Holst – The Planets
	PE
	(Key Vocabulary and links to programmes of study)
Nigley -	 Movement – Space Perform dances using a range of movement patterns.
PE – Ru	gby - play competitive games, modified where appropriate
enny A	cres – PE taught by Mr Hawke
	French
	The Planets
	appreciate stories, songs, poems and rhymes in the language
broa	den their vocabulary and develop their ability to understand new words that are introduced into
	familiar written material, including through using a dictionary
/3/4 Le	arn the names of the planets. Learn the days of the week and colours to help describe the planets.
/5/6 Le	arn the names of the planets. Revise colours and days of the week. Learn prepositions and
antonyr	ns. Write sentences to describe the planets.
	HOMEWORK OPPORTUNITIES
1. 2. e.g.	Make a scale model of the Solar System. Make an acrostic for one of the planets M A
2.	Make an acrostic for one of the planets M
2. e.g. 3.	Make an acrostic for one of the planets M A R S This could be a list of words beginning with each letter, a sentence for each line or even a rhyme. Find out facts about the space missions –
2. e.g. 3.	Make an acrostic for one of the planets M A R S This could be a list of words beginning with each letter, a sentence for each line or even a rhyme. Find out facts about the space missions – What was the first creature sent into space?
2. e.g. 3.	Make an acrostic for one of the planets M A R S This could be a list of words beginning with each letter, a sentence for each line or even a rhyme. Find out facts about the space missions – What was the first creature sent into space? Who was the first astronaut?
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2. e.g. 3. 4. 5. 6. 7. 8.	Make an acrostic for one of the planets M A R S This could be a list of words beginning with each letter, a sentence for each line or even a rhyme. Find out facts about the space missions – What was the first creature sent into space? Who was the first astronaut? Who was the first astronaut? Who was the first man on the moon? that other interesting facts can you find? Bake your own space themed cookies or biscuits. They could be star, rocket or planet shaped. They could even include space rocks such as popping candy! Write the recipe in your homework jotter. Feel free to share your biscuits with your teacher! Make a 3D model rocket with a parachute to aid re-entry. Keep a sky at night journal for a whole week. Write about everything you can see in the sky. You could draw a picture of the moon every night. Does it change over the course of the week? Prepare a lesson to teach the class about an aspect of Space you enjoy (Be ready to teach it!) Create a timeline to show the history of space travel.
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2. e.g. 3. 4. 5. 6. 7. 8. 9. 10.	Make an acrostic for one of the planets M A R S This could be a list of words beginning with each letter, a sentence for each line or even a rhyme. Find out facts about the space missions – What was the first creature sent into space? Who was the first astronaut? Who was the first astronaut? Who was the first man on the moon? Yhat other interesting facts can you find? Bake your own space themed cookies or biscuits. They could be star, rocket or planet shaped. They could even include space rocks such as popping candy! Write the recipe in your homework jotter. Feel free to share your biscuits with your teacher! Make a 3D model rocket with a parachute to aid re-entry. Keep a sky at night journal for a whole week. Write about everything you can see in the sky. You could draw a picture of the moon every night. Does it change over the course of the week? Prepare a lesson to teach the class about an aspect of Space you enjoy (Be ready to teach it!) Create a timeline to show the history of space travel. Create a new mnemonic that will help others in the class remember the names of the planets and their order from the sun.