BARNES PRIMARY SCHOOL CURRICULUM MAP

YEAR GROUP: 5

		AUTUMN	SPRING	SUMMER
	THEME	Title of Learning Theme	Title of Learning Theme	Title of Learning Theme
		SPACE	INDIA	EXPLORATION AND JOURNEYS
CORE CURRICULUM	THEME ENGLISH MATHS	AUTUMN Title of Learning Theme SPACE Text studied: Butterfly Lion – Michael Morpurgo Memorial – Gary Crew The Iron Man - Ted Hughes Writing outcomes: Diary Informal letter writing Newspaper report TV news script Recount (linked to trip to Design Museum) Persuasive argument Place Value Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit; count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000; interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers; round any number up to 1 000 000 to the nearest 10, 100, 10 000 and 100 000; solve number problems and practical problems that involve all of the above; read Roman numerals to 1000 (M) and recognise years written in Roman numerals. Addition and Subtractions Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction); add and subtract numbers mentally with increasingly large numbers; use rounding to check answers to calculations; solve addition and diviston Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers; know and use the vocabulary of prime numbers up to 19; multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 recognise aduse square numbers and cube numbers; solve problems and precises and geography	SPRING Title of Learning Theme INDIA Texts studied: Shaira's Secret The Highwayman Writing outcomes: Playscript Narrative writing Diary Multiplication and division Multiplication and divide numbers mentally drawing upon known facts; Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context; solve problems involving addition, subtraction, multiplication and Measure and caculate the perimeter of composite rectilinear meaning of the equals sign; solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates. Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres; calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes; estimate volume and capacity; C	SUMMER Title of Learning Theme EXPLORATION AND JOURNEYS Texts studied: Journey to Jo'burg Macbeth Writing outcomes: Narrative Email Balanced argument Practions and percentages Compare and order fractions whose denominators are all multiples of the same number; identify, name and write equivalent fractions of a given fraction; recognise mixed numbers and improper fractions and convert from one form to the other; add and subtract fractions with the same denominator and denominators that are multiples of the same number; multiply proper fractions and mixed numbers by whole numbers; recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal Decimals Read and write decimal numbers as fractions; recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents; round decimals with two decimal places to the nearest whole number and to one decimal place; read, write, order and compare numbers with up to three decimal places; solve problems involving number up to three decimal places; solve problems involving number up to three decimal places; solve problems involving converting between units of time; Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints
		Statistics – through science and geography Solve comparison, sum and difference problems using information presented in a line graph; complete, read and interpret information in tables, including timetables.	Geometry – position and direction Identify, describe and represent the position of a shape following a reflection or translation;	

	Earth and Space	Sound	Changing materials	Living things and their habitats	Keeping healthy
	Describe the movement of	Identify how sounds are made,	Properties of solids, liquids and gases; demonstrate that	Describe the differences in the	Describe the changes as
SCIENCE	the Earth, and other planets,	associating some of them with	dissolving, mixing and changes of state are reversible changes;	life cycles of a mammal, an	humans develop to old age.
	relative to the Sun in the	something vibrating; recognise	identify the part played by evaporation and condensation in the	amphibian, an insect and a bird;	identify and name the main
	solar system; describe the	that vibrations from sounds	water cycle and associate the rate of evaporation with	describe the life process of	parts of the human
	movement of the Moon	travel through a medium to the	temperature.	reproduction in some plants and	circulatory system, and
	relative to the Earth;	ear;		animals; explore the part that	describe the functions of the
	describe the Sun, Earth and	find patterns between the pitch		flowers play in the life cycle of	heart, blood vessels and
	Moon as approximately	of a sound and features of the		flowering plants, including	blood
	spherical bodies; use the	object that produced it; find		pollination, seed formation and	recognise the impact of diet,
	idea of the Earth's rotation	patterns between the volume of		seed dispersal.	exercise, drugs and lifestyle
	to explain day and night and	a sound and the strength of the		·	on the way their bodies
	the apparent movement of	vibrations that produced it;			function;
	the sun across the sky.	recognise that sounds get fainter			describe the ways in which
		as the distance from the sound			nutrients and water are
		source increases			transported within animals,
					including humans.
ICT	e-	safety	Programming and Scratch	Topic: Databases Number Operations	
	Discuss and define e-safety – f	focusing on SMART (Safe, Meeting,	Use scratch to create a range of computer programs;		
	Accepting,	, Reliable, Tell).	understand the language of computer programming; build	Ordering and Presenting Data	
	Review features of an effecti	ve poster (look at previous years'	understanding of computational thinking; build understanding	Add, Edit and Ca	lculate Data
	work and some existing	g posters from the internet).	of computational thinking; teach key Computing skills –	Solving Pro	blems
	Evaluate poster and identify	features – annotate using Skitch.	Sequencing, Inputs, Selection, Repetition, Variables	Party Plan E	Budget
	Email anno	otated posters.			
	Create success criteria for creating posters.		e-safety – Reliability	E-safety (1 Lesson) Securing our information	
			What does reliable mean?	What is a password? What kind of s	ites do we use passwords for?
	Microsoft Publisher – e-safety Poster Design		Why might some things we see online not be reliable? (people	Password guidelines – how to create 'strong' passwords. NB – a	
	Explore Publisher a	and its various features.	and content)	strong password is one that contains letters and numbers, upper	
	Use publisher to create posters (experiment with background		How could we check reliability? (check 2/3 sites, check website	and lower case, 8 or more characters, is hard to guess and easy to	
	colours, text size, font and co	olour, use word art, insert images	endings)	remember – and is changed frequently	
	from the internet).		Children carryout Childnet – "Trust Me" activities.		_
	Review posters – peer assess and improve.			Website D	esign
	Self-assess final posters.			Explore WIX.com – investigating	g existing webpage designs
				Set up account using lgfl e	emails (e-safety link).
	e-safety – Design questionnaire/survey			Design website to advertise I	names Young Mariners.
	Study the Young People and e-safety Survey – Igfl.			Peer assessment	/evaluation
	Devise e-safety questionnaires.				
	Respond to	questionialles.			
	Microsoft Excel – data handling				
	Explore Microsoft Excel				
	Input da	ata into cells			
	Design graphs/charts to disp	play results from e-safety survey.			
	Review,	peers assess			

	HISTORY	Humanities		
FOUNDATION SUBJECT / LEARNING THEME		Barnes: from past to present In this unit the children investigate how the local area changed during the Victorian era, due to the industrial revolution. Children will go on a local history walk to spot historic features (such as Flemish brick bonding) and compare it with old photographs. They will build on their map reading skills, using historic maps, to source information. This will allow them to answer 'When was this area [Westfields] built?' and 'How did land use change over	How have our ideas about space developed over time? What were the similarities and differences between the ideas of Ptolemy, Copernicus and Galileo? What was the Space race?	Journeys: Vikings and Anglo-Saxons Who were the Vikings? How did people live in Viking Britain? Who were the Anglo Saxons? How did people live in Anglo- Saxon Britain.
	GEOGRAPHY	time?' They will use primary and secondary sources to investigate the main cause of these changes, exploring these ideas through role play, and will discover the significance of the railway that was built through the area. Space: Locational knowledge Key skills : Identify the position and significance of latitude, longitude, Equator, Northern Hemisphere, Southern Hemisphere, the Tropics of Cancer and Capricorn, Arctic and Antarctic Circle, the Prime/Greenwich Meridian and time zones	India Content: Where is India? What are India's most important physical and human features? How and why does India's climate vary? Key skills developed: use of geographical vocabulary; interpreting variety of maps; understanding of physical and human geography including climate zones	Journeys Investigate the impact of air pollution on our locality Plot aircraft routes to Heathrow on world map Analyse and present data collected and review impact of air travel Investigate how schools cope with air pollution Debate the pros and cons of building a third runway and the impact on the locality
	DESIGN TECHNOLOGY	Space: textiles Content: children design, make and evaluate a space decoration to improve a bedroom Key skills: sewing stitches; sewing on buttons	India: cooking Content: children plan, make and evaluate a mango lassi	Journeys: using wood Content: designing, making, evaluation bridges Key skills: evaluating current products; cutting wood; joining wood; suggesting improvements (this is only taught if there is enough time in the timetable)
	ART	Space: pastel planets Children develop their techniques for using soft pastels They learn how to create a spherical shape using line and shade They evaluate their work and that of others. Children develop their watercolour techniques and create a butterfly to accompany Butterfly Lion writing. Over the course of the year, each child will have six one-hour	India: divali pots Children investigate the shape, colour and pattern of existing divali pots; they design their own and use coiling clay techniques to create their own pot; after firing, this is decorated with paint. Children investigate pattern in Hindu rangoli patterns to create their own.	Shape and Pattern in Anglo-Saxon Art Through a trip to the Victoria and Albert Museum, children investigate Anglo Saxon jewellery and design their own brooch.
	DUNCICAL	sessions with the school's artist in residence	Arts week – last week in Spring 1	
	EDUCATION	Yoga and Dance The theme for the dance unit is A Journey through Space.	Swimming – Pools on the Park	Gymnastics Thames Young Mariners – outdoor and adventurous activities including kayaking, orienteering, raft building and archery
	PERSONAL DEVELOPME NT	Citizenship education What does it mean to be a citizen? What does it mean to be a citizen of Barnes Primary School? To appreciate that in school and in wider society they can expect to be treated with respect by others, and that in turn they should show due respect to others, including those in positions of authority	Health and Prevention How to recognise early signs of physical illness, such as weight loss or unexplained changes to the body The facts and science relating to immunisation and vaccination Building Good Relationships To discuss what values are important in relationships ; to identify positive qualities and expectations for a variety of relationships; how to recognise who trust and who not to trust, how to judge when a friendship is making them feel unhappy or uncomfortable, managing conflict, how to manage these situations and how to seek help or advice from others, if needed	Sex and relationships education Explain the main physical and emotional changes that happen during puberty; to explore the impact of puberty on the body and the importance of physical hygiene; to explore ways to get support during puberty; understand that menstruation and wet dreams are a normal part of growing up
	RELIGIOUS EDUCATION	Focus: Christianity What are the key similarities between the two gospel accounts of the Christmas story? What is the importance of interpretation and truth?	Focus: Hinduism What does it mean to be a Hindu? What are the key beliefs and practices of Hinduism? What can I learn from Hindu values? This unit of work includes a visit to Neasden Mandir	Focus: Islam Why are pilgrimages important to different religions? Focus on Hajj and compare with other faith pilgrimages How would it feel to be a pilgrim? What special journeys have you taken? What did they mean to you?