St Mary's C of E Primary School YEAR 6 LONG TERM PLAN 2016-17

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1 London Residential	Summer 2
Visits/ Visitors	HHS- Healthy lifestyles (Healthitude) Community Police Liaison CAFOD	Theatre Trip (Peter Pan) HHS-Healthy Lifestyles (Fit for Life) Child-line E Safety- local High School Performance Poetry-Matt Goodfellow The Foundry-Polar Express	Learning to love. Loving to learn – aspiration week visitors	HHS-Making safe choices	Phoenix Park- Local Habitats	Chester Cathedral
NUMERACY	Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit Round any whole number to a required degree of accuracy Use negative numbers in context, and calculate intervals across zero Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the	Use common factors to simplify fractions; use common multiples to express fractions in the same denomination Compare and order fractions, including fractions > 1 Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions Multiply simple pairs of proper fractions, writing the answer in its simplest form Divide proper fractions by whole numbers Associate a fraction with division and calculate decimal fraction equivalents Identify the value of each	Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places Convert between miles and kilometres Recognise that shapes with the same areas can have different perimeters and vice versa Recognise when it is possible to use formulae for area and volume of shapes Calculate the area of parallelograms and triangles Calculate, estimate and	Draw 2- D shapes using given dimensions and angles Recognise, describe and build simple 3-D shapes, including making nets Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. Describe positions on the full coordinate grid	Interpret and construct pie charts and line graphs and use these to solve problems Calculate and interpret the mean as an average Solve number and practical problems that involve all of the above (number and place value) Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why Solve problems involving addition, subtraction,	Reasoning/ Problem Solving in Real Life Contexts Dragon's Den- Budget/costing Profit/Loss Data Handling- Plants/Animals – classification (science) Shape & Space-Patterns in Art

	context Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate interpreting remainders according to the context Perform mental calculations, including with mixed operations and large numbers Identify common factors, common multiples and prime numbers Use their knowledge of the order of operations to carry out calculations involving the four operations Solve number and practical problems that involve all of the above (number and place value) Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why Solve problems involving addition, subtraction, multiplication and division Use estimation to check answers to calculations and determine, in the	digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places Multiply one-digit numbers with up to two decimal places by whole numbers Use written division methods in cases where the answer has up to two decimal places *Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts* Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison Solve problems involving similar shapes where the scale factor is known or can be found	compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3) and cubic metres (m3), and extending to other units [for example, mm3 and km3]. Solve number and practical problems that involve all of the above (number and place value) Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why Solve problems involving addition, subtraction, multiplication and division Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy Solve problems which require answers to be rounded to specified degrees of accuracy	(all four quadrants) Draw and translate simple shapes on the coordinate plane, and reflect them in the axes Solve number and practical problems that involve all of the above (number and place value) Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why involving addition, subtraction, multiplication and division Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy Solve problems which require answers to be rounded to specified degrees of accuracy Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts	multiplication and division Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy Solve problems which require answers to be rounded to specified degrees of accuracy Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison Solve problems involving similar shapes where the scale factor is known or can be found Solve problems involving unequal sharing and grouping using knowledge of	

	context of a problem, an appropriate degree of accuracy	Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples Use simple formulae Generate and describe linear number sequences Express missing number problems algebraically Find pairs of numbers that satisfy an equation with two unknowns Enumerate possibilities of combinations of two variables Solve number and practical problems that involve all of the above (number and place value) Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why Solve problems involving addition, subtraction, multiplication and division Use estimation to check answers to calculations and	Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison Solve problems involving similar shapes where the scale factor is known or can be found Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate	Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison Solve problems involving similar shapes where the scale factor is known or can be found Solve problems involving unequal sharing and grouping using knowledge of fractions and multiple Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate	fractions and multiples Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate	

		determine, in the context of a problem, an appropriate degree of accuracy Solve problems which require answers to be rounded to specified degrees of accuracy Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples				

LITERACY	Fiction Unit -Skyhawk Narrative Adventure (5wks) Including: Diary Entry, Narrative, Persuasive Letter Writing. ***G&P foci-Rev as req'd:word classes. apostrophe, direct speech,reported speech simple/complex sentence punctuation, conjunctions, compound sentences, commas in lists, expanded,noun phrases, common,paragraphing modal verbs***	Remembrance-Non Chronological Reports S & L- Performance Poetry Yr 6 assembly – The Jabberwocky (including additional writing opportunities.) Anti-Bullying-comic strip and story writing. ***G&P foci: Subject & verb agreement article,linking paragraphs, 1st/3rdperson; tenses relative clauses, homophones Pronouns***	Farther : Narrative (Flashback) Fiction Unit- The Piano(film) Fiction Unit – The Dreamgiver (film clip) ***G&P foci- Rev as req'd:punctuation of direct quotes, connectives (more sophisticated), clauses & phrases, complex sentences (embedded clauses) Prepositions***	Found poetry - Imagery (Simile, Metaphor, Personification) Also revision of poetry key terms(2wk) Persuasive Writing: Overfishing (video clip). Passive Voice : Dracula's Whitby ***G&P foci- tenses incl irregular forms, rootwords, suffix-making adverbs from adjectives, adding ing suffix parenthesis, ellipsis,dashes(to add a phrase or clause),semi colon.***	Dracula's Whitby (cont) – Revision of genres and features. London-Recount SATS Reading Practise and SPaG Practise ***G&P foci: adverbs &adjective phrases as openers, passive/modal verbs punctuating bullet points, colon to introduce list, semi colon to separate phrases(lists)***	Mayans: Non-chronological report/diary entry. Clockwork – Writing a story within a story. Reading, writing and speaking & listening opportunities, particularly with a focus for the Leavers' Service.
RE	**Good News** a) Why is Jesus, 'Light of the World' good news for Christians? (PPT) How do the signs in John's gospel help to explain Jesus as good news? b) How do different	**Christian Community** a) How does the teaching of the Church influence the everyday life of believers? What impact do the lives of the church community make in today's world?	**K. of God** How does a belief in the Kingdom of God inspire and influence Christians across the world? **Hinduism 3 lessons (Divali)**	**Forgiveness** a) What is the difference between forgiveness and justice? **Salvation** b) Where in a church building are there signs of salvation?	**Discipleship** a) How does the sermon on the mount help Christians to follow Jesus? **Holy Spirit** b) How do Christians believe	**Hinduism ¼ term (ahisma, atman Reincarnation)** How does belief in reincarnation affect a Hindus' life? **Cross religious theme ¼ term** How can religious

	Christians describe God?	**Incarnation** b) How do different artists show what is important about the Incarnation? How do different global communities show what is important about the Incarnation?	How does the Hindu celebration of Divali show their understanding of God?	**Resurrection** c) How are the resurrection and ascension of Jesus good news for Christians? What hope does the resurrection give to Christians? cf (2b:7)	the Holy Spirit is at work in their lives today? **Creation** c) Does Science disprove Genesis? c	communities live together in the community in peace? What are the challenges? (Choice of world religions)
PSHCE	New Beginnings-	Getting On and Falling Out	Going For Goals	Good to be Me	Relationships	Changes: Global citizenship – how the decisions we make affect others all around the world, both positively & negatively. Changes: in my life- preparing for High School

COMPUTING	Internet safety/ Data handling, pictograms, databases and graphing packages	Multi-media/Research: 60's entertainment /lifestyle. (Combining Text , graphics and Sound Pop Art	SMART technologies- Communication links	Programming and Modelling: Digital imagery , animation and Video	SATs revision- (Using technology to Support/chart our progress)	Research Web/Game developers
SCIENCE	What scientists did for us? Research specific scientists and their specialisms) What are micro organisms? Living things and their habitats How are living things classified?		Animal incl humans How do our bodies function? How does diet, exercise, drugs and lifestyle affect how our bodies function? How are nutrients and water transported within animals, including humans?	Evolution and Inheritance How have living things have changed over time? What can we learn from fossils? Why do living things produce offspring of the same kind? How do animals and plants adapt to suit their environment?	Light How do we See? How does light travel?	Electricity How can we change a circuit? What affects the brightness of bulbs and the loudness of buzzers? What do symbols mean?
GEOGRAPHY	**1940s/ 1960s and now** Where did WW2 begin and how did it spread across Europe and the wider world? How did the war change settlement and land use? How did the war alter the way we lived?		**Brazil** Can I compare the geographical similarities and differences of the United Kingdom and South America Can I use atlases and maps to locate the world's countries? Can I identify key physical and human characteristics of contrasting countries and major cities?		**Compare Runcorn/ London** How does Runcorn differ from London? (Fieldwork) How can we use fieldwork to observe, measure, record and present human and physical features of the local area? Can I use a compass, grid references, symbols and keys? **Mayons** Who were the Mayans and where did they originate from?	
HISTORY	**1940s/ 1960s and now** **Leisure and entertainment in the 20th century** How did leisure and entertainment change in Britain during the 20th/21st Century?		**Rich & Poor: Is Brazil a divided country?** How are historical concepts (such as continuity and change) affected by cause and consequence?		**Mayan civilization** How does the history of this non-European society contrast with British history?	

	How have people's lives shaped this nation and how has Britain influenced and been influenced by the wider world?		What similarities and differences can I identify and use to make connections, draw contrasts, analyse trends?		What do we understand about the term "civilisation"?	
PE	Invasion Games Swimming	Dance	Gymnastics	Net & Wall Games	Athletics	Striking and Fielding
DT	**Food Technology - Bread** (Science) **Textiles** How do the properties of textiles affect their functional properties and aesthetic qualities? Who were the great fashion designers in the 20th and 21st centuries? Can I design a war time outfit that is fit for purpose, choosing suitable textiles?		**Food** What does a healthy and varied diet look like? How does seasonality affect the ingredients which are caught and processed? Can I prepare and cook using a range of cooking techniques?		**Complex Electrical Circuits** Can I understand and use electrical systems?] Can I apply my understanding of computing to program, monitor and control their products? Can I use prototypes, pattern pieces and computer-aided design?	
ART	**Drawing** Can I design and sketch a war time propaganda poster? Who are the great artists in Pop Art and what influenced it? Can I produce my own Pop Art using a variety of techniques?		**Painting** What do I understand about carnival art? Can I recreate carnival art painting using a range of materials?		**Sculpture** Why do masks play an important part in the Mayon tradition? Can I design and sculpt my own Mayon mask?	
MUSIC	Recording and creating music and sound. Researching music genres across decades. Choral performances		Music from different cultures-South America (composing music)		Songwriter/ Lyrics (singing & Performing)	
MFL	French: Pronunciation and intonation when speaking Broaden vocabulary/ understand new words/phrases & simple writing		French: Ask & Answer questions Express opinions/respond to those of others Describing people & places(writing)		French: Write phrases from memory Basic grammar Presenting ideas and information orally to a range of audience.	