

Horn Park Primary School
Year Group 4
Curriculum Overview 2016 – 2017

<p>Reading- word reading Pupils should be taught to:</p> <ul style="list-style-type: none"> ▪ apply their growing knowledge of root words, prefixes and suffixes (etymology and morphology) as listed in English Appendix 1, both to read aloud and to understand the meaning of new words they meet ▪ read further exception words, noting the unusual correspondences between spelling and sound, and where these occur in the word. 	<p>Reading- comprehension Pupils should be taught to:</p> <ul style="list-style-type: none"> ▪ develop positive attitudes to reading and understanding of what they read by: <ul style="list-style-type: none"> - listening to and discussing a wide range of fiction, poetry, plays, non-fiction and reference books or textbooks - reading books that are structured in different ways and reading for a range of purposes - using dictionaries to check the meaning of words that they have read - increasing their familiarity with a wide range of books, including fairy stories, myths and legends, and retelling some of these orally - identifying themes and conventions in a wide range of books - preparing poems and play scripts to read aloud and to perform, showing understanding through intonation, tone, volume and action - discussing words and phrases that capture the reader's interest and imagination - recognising some different forms of poetry [for example, free verse, narrative poetry] ▪ understand what they read, in books they can read independently, by: <ul style="list-style-type: none"> - checking that the text makes sense to them, discussing their understanding and explaining the meaning of words in context - asking questions to improve their understanding of a text - drawing inferences such as inferring characters' feelings, thoughts and motives from their actions, and justifying inferences with evidence - predicting what might happen from details stated and implied - identifying main ideas drawn from more than one paragraph and summarising these - identifying how language, structure, and presentation contribute to meaning ▪ retrieve and record information from non-fiction ▪ participate in discussion about both books that are read to them and those they can read for themselves, taking turns and listening to what others say. 	<p>Handwriting Pupils should be taught to:</p> <ul style="list-style-type: none"> ▪ use the diagonal and horizontal strokes that are needed to join letters and understand which letters, when adjacent to one another, are best left un-joined ▪ increase the legibility, consistency and quality of their handwriting [for example, by ensuring that the downstrokes of letters are parallel and equidistant; that lines of writing are spaced sufficiently so that the ascenders and descenders of letters do not touch]. 	
<p>Writing-transcription Spelling (see English Appendix 1) Pupils should be taught to:</p> <ul style="list-style-type: none"> ▪ use further prefixes and suffixes and understand how to add them (English Appendix 1) <ul style="list-style-type: none"> ▪ spell further homophones ▪ spell words that are often misspelt (English Appendix 1) ▪ place the possessive apostrophe accurately in words with regular plurals [for example, girls', boys'] and in words with irregular plurals [for example, children's] ▪ use the first two or three letters of a word to check its spelling in a dictionary ▪ write from memory simple sentences, dictated by the teacher, that include words and punctuation taught so far. 	<p>Composition Pupils should be taught to:</p> <ul style="list-style-type: none"> ▪ plan their writing by: <ul style="list-style-type: none"> - discussing writing similar to that which they are planning to write in order to understand and learn from its structure, vocabulary and grammar - discussing and recording ideas ▪ draft and write by: <ul style="list-style-type: none"> - composing and rehearsing sentences orally (including dialogue), progressively building a varied and rich vocabulary and an increasing range of sentence structures (English Appendix 2) - organising paragraphs around a theme - in narratives, creating settings, characters and plot - in non-narrative material, using simple organisational devices [for example, headings and sub-headings] ▪ evaluate and edit by: <ul style="list-style-type: none"> - assessing the effectiveness of their own and others' writing and suggesting improvements - proposing changes to grammar and vocabulary to improve consistency, including the accurate use of pronouns in sentences ▪ proof-read for spelling and punctuation errors ▪ read aloud their own writing, to a group or the whole class, using appropriate intonation and controlling the tone and volume so that the meaning is clear. 	<p>Writing – vocabulary, grammar and punctuation Pupils should be taught to:</p> <ul style="list-style-type: none"> ▪ develop their understanding of the concepts set out in English Appendix 2 by: <ul style="list-style-type: none"> - extending the range of sentences with more than one clause by using a wider range of conjunctions, including when, if, because, although - using the present perfect form of verbs in contrast to the past tense - choosing nouns or pronouns appropriately for clarity and cohesion and to avoid repetition - using conjunctions, adverbs and prepositions to express time and cause - using fronted adverbials - learning the grammar for years 3 and 4 in English Appendix 2 ▪ indicate grammatical and other features by: <ul style="list-style-type: none"> - using commas after fronted adverbials - indicating possession by using the possessive apostrophe with plural nouns - using and punctuating direct speech ▪ use and understand the grammatical terminology in English Appendix 2 accurately and appropriately when discussing their writing and reading. 	
<p>Number-number and place value Pupils should be taught to</p> <ul style="list-style-type: none"> ▪ count in multiples of 6, 7, 9, 25 and 1000 ▪ find 1000 more or less than a given number ▪ count backwards through zero to include negative numbers ▪ recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) ▪ order and compare numbers beyond 1000 ▪ identify, represent and estimate numbers using different representations ▪ round any number to the nearest 10, 100 or 1000 ▪ solve number and practical problems that involve all of the above and with increasingly large positive numbers ▪ read Roman numerals to 100 (I to C) and know that over 	<p>Number- addition and subtraction Pupils should be taught to:</p> <ul style="list-style-type: none"> ▪ add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate ▪ estimate and use inverse operations to check answers to a calculation ▪ solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why. 	<p>Number- multiplication and division Pupils should be taught to:</p> <ul style="list-style-type: none"> ▪ recall multiplication and division facts for multiplication tables up to 12 × 12 ▪ use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers ▪ recognise and use factor pairs and commutativity in mental calculations ▪ multiply two-digit and three-digit numbers by a one-digit number using formal written layout ▪ solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence 	<p>Number- fractions (including decimals) Pupils should be taught to:</p> <ul style="list-style-type: none"> ▪ recognise and show, using diagrams, families of common equivalent fractions <ul style="list-style-type: none"> ▪ count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. ▪ solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number ▪ add and subtract fractions with the same denominator ▪ recognise and write decimal equivalents of any number of tenths or hundredths

time, the numeral system changed to include the concept of zero and place value.		problems such as n objects are connected to m objects.	<ul style="list-style-type: none"> recognise and write decimal equivalents to 41 , 21 , 34 find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths round decimals with one decimal place to the nearest whole number compare numbers with the same number of decimal places up to two decimal places solve simple measure and money problems involving fractions and decimals to two decimal places.
Geometry- position and direction Pupils should be taught to: <ul style="list-style-type: none"> describe positions on a 2-D grid as coordinates in the first quadrant describe movements between positions as translations of a given unit to the left/right and up/down plot specified points and draw sides to complete a given polygon. 	Geometry- properties of shapes Pupils should be taught to: <ul style="list-style-type: none"> compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes identify acute and obtuse angles and compare and order angles up to two right angles by size identify lines of symmetry in 2-D shapes presented in different orientations complete a simple symmetric figure with respect to a specific line of symmetry. 	Statistics Pupils should be taught to: <ul style="list-style-type: none"> interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs. 	Measurement Pupils should be taught to: <ul style="list-style-type: none"> Convert between different units of measure [for example, kilometre to metre; hour to minute] measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres find the area of rectilinear shapes by counting squares estimate, compare and calculate different measures, including money in pounds and pence read, write and convert time between analogue and digital 12- and 24-hour clocks solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.

Subject	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	<u>Whole School Focus:</u> Zoo Year 4 Focus: Magic and Mystery 'The Lion, The Witch and The Wardrobe'	<u>Year 4 Focus:</u> Courage and Strength 'The Ice Palace'	<u>Whole School Focus:</u> Railway Children 'The Railway Children'	<u>Year 4 Focus:</u> Vicious Vikings 'Beowulf' 'How to train a dragon'	<u>Whole School Focus:</u> Greenwich Times <u>Year 4 Focus:</u> Greeks 'Stories through time'	<u>Year 4 Focus:</u> Rainforest The Great Kapok Tree
Trips	Kew Zoo – 28 th Sept Lambeth Zoo – 29 th Sept	Railway Children Theatre Show – 15 th Dec	Young Voices Thursday 19 th January	Maritime Museum K – 23 rd March L – 20 th March	British Museum – Greek Life 4 th May	Kew Gardens K – 27 th June L – 29 th June
PHSCE	PHSCE Core Values: Responsibility, Freedom/Tolerance	PHSCE Core Values: Respect, Forgiveness	PHSCE Core Values: Perseverance and Co-operation	PHSCE Core Values: Kindness and Unity	PHSCE Core Values: Trust	PHSCE Core Values: Resilience and Honesty

Science	<p>Animals including humans</p> <p>Describe the simple functions of the basic parts of the digestive system in humans; Identify the different types of teeth in humans and their simple functions. Construct and interpret a variety of food chains, identifying producers, predators and prey.</p>	<p>Sound</p> <p>Identify how sounds are made, associating some of them with something vibrating; Recognise that vibrations from sounds travel through a medium to the ear; Find patterns between the pitch of a sound and features of the object that produced it; Find patterns between the volume of a sound and the strength of the vibrations that produced it; Recognise that sounds get fainter as the distance from the sound source increases.</p>	<p>Electricity</p> <p>Identify common appliances that run on electricity; Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers; Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery; Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit; Recognise some common conductors and insulators, and associate metals with being good conductors.</p>	<p>States of Matter</p> <p>compare and group materials together, according to whether they are solids, liquids or gases observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C) identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.</p>	<p>Rocks (formation, sorting and classifying)</p> <p>Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties; Describe in simple terms how fossils are formed when things that have lived are trapped within rock; Recognise that soils are made from rocks and organic matter.</p>	<p>Animals (predators and prey)</p> <p>Recognise that living things can be grouped in a variety of ways; Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment; Recognise that environments can change and that this can sometimes pose dangers to living things.</p>
Computing	<p><u>Opinion Pollsters</u></p> <p>Select, use and combine a variety of software (including internet services) on a range of digital devices and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</p>	<p><u>Stop Motion Animations</u></p> <p>Select, use and combine a variety of software (including internet services) on a range of digital devices and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and</p>	<p><u>Coding – PM</u></p> <p>Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</p>	<p><u>Scratch Animations</u></p> <p>Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts</p>	<p><u>Programming, coding and control – Lego WeDo</u></p> <p>Use sequence, selection, and repetition in programs; work with variables and various forms of input and output</p>	<p><u>Internet Safety</u></p> <p>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about contents and contact.</p>

		information. Use sequence, selection and repetition in programs; work with variables and various forms of input and output.				
Design and technology	<u>Art</u>	<u>Textiles</u> Practise joining fabrics together using various stitches; Explore fastenings and recreate some, e.g., sew buttons on and make loops; Prototype a product using j cloths; Create a simple pattern and understand the need for these	<u>Electrical systems</u> Explore electrical systems in their environment; Understand how to use electricity safely; Know how electrical circuits can be used to achieve results that work; Assemble and join components accurately including a switch; Incorporate a circuit with a bulb or buzzer into a model	<i>Art and Design</i>	<i>DT</i> Design - generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design Make - select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities Evaluate - investigate and analyse a range of existing products - evaluate their ideas and products against their own design criteria and consider the views of others to improve their work - understand how key events and individuals in design and technology have helped shape the world Technical knowledge - apply their understanding of how to strengthen, stiffen and reinforce more complex structures - understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages] - understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors] - apply their understanding of computing to program, monitor and control their products	<i>Art and Design</i>
History	<i>Geography</i>	<u>Saxons</u> Arrange historical events in chronological order; Use evidence to reconstruct life in time studied; Know that an event	<i>Geography</i>	<u>Vikings and Saxons</u> (The Viking and Anglo-Saxon struggle for the Kingdom of England to the time of Edward the Confessor)	<u>Ancient Greece</u> (Ancient Greece – a study of Greek life and achievements and their influence on the western world) Use terms related to	<i>Geography</i>

		can be interpreted in different ways		Look for links and effects in time studied and offer a reasonable explanation for some events; Ask a variety of questions, use the library, e-learning for research; Select data and organise it into a data file to answer historical questions; Display findings in a variety of ways; Work independently and in groups	the period and begin to date events; Understand more complex terms e.g., BC/AD; Identify key features and events; Begin to evaluate the usefulness of different sources; Choose relevant material to present a picture of one aspect of life in time past	
Geography	<u>UK and European countries</u> Name and locate counties and cities of the United Kingdom, geographical regions and their identifying human and physical characteristics, key topographical features (including hills, mountains, coasts and rivers), and land-use patterns; and understand how some of these aspects have changed over time; Understand geographical similarities and differences through the study of human and physical geography of a region of the United Kingdom, a region in a European country, and a region in North or South		<u>Fieldwork Study</u> Use fieldwork to observe, measure record and present the human and physical features in the local area using a range of methods, including sketch maps, plans and graphs, and digital technologies		<u>Tobago/North American Country</u> Locate the world's countries, using maps to focus on Europe (including the location of Russia) and North and South America, concentrating on their environmental regions, key physical and human characteristics, countries, and major cities; Understand geographical similarities and differences through the study of physical and human geography of a region of the United Kingdom, a region in a European country and a region in North or South America; human geography, including: types of settlement and land use, economic activity including trade links, and the distribution of natural resources including energy, food, minerals and water	
Religious Education	Christianity Unit 6: Local Christian places of worship Why are there different places of worship for Christians? What similarities are there in what Christians believe? How does coming together help Christians to grow in their faith?	Peace What is peace? What does it mean in the world and to you? What does peace mean for countries and people living there? What does peace mean to Christians? How did Martin Luther King's attitude to peace change lives? How was Gandhi able	Judaism Unit 3: The Synagogue How do Jews show that God is present in the synagogue? How does the Torah help Jewish people to understand what being Jewish means?	Weddings Study weddings in the Christian tradition and then focus on one other faith from Hinduism, Judaism or Sikhism in detail; Emphasise that there are many family experiences and many ways that people choose to live	Judaism Unit 4: Jewish life How does the Shema tell Jews to keep their religion alive? How does life change for a Jew after their Bar/Bat Mitzvah? Why are the home and synagogue equally important in Jewish life?	Islam Unit 3: Ramadan and Id Ul Fitr Why do Muslims fast during Ramadan? How does fasting help Muslims to grow closer to Allah and to each other? How do Muslims celebrate Id?

		to change attitudes peacefully? Islam: How do Muslims associate peace with Allah? What does peace mean to us? How can we foster peace in our lives?		– this unit will focus on the choice of marrying a partner and setting up a home together.		
Art and design	<p><i>Acrylic Paint</i></p> <p>Apply tone in a drawing in a simple way; Apply a simple use of pattern and texture in drawing; Use secondary colours to mix tertiary colours; Mix and match colours to those used in a work of art; Make independent choices of media.</p>		<p>Pastels / Anglo Saxon Art and Culture</p> <p>Draw for a sustained period of time and at an appropriate level.</p> <p>Understand and apply proportion in their drawing.</p> <p>Apply tone in a drawing in a simple way.</p> <p>Apply a simple use of pattern and texture in a drawing.</p>		<p>Hunter Wasser – relief sculpture</p> <p>Plan, design and make models from observation or imagination</p> <p>Develop joining techniques to join clay adequately and construct a simple base for extending and modelling other shapes</p> <p>Create surface patterns and textures in a malleable material</p>	
Languages-Spanish	<p>Learn food nouns from the story 'The Hungry Caterpillar'</p> <p>Listen to and understand a story</p> <p>Develop confidence and memory by retelling a story</p>	<p>Sing happy birthday in Spanish</p> <p>Listen to and watch a video clip with unfamiliar vocabulary</p> <p>Learn new Christmas vocabulary</p>	<p>Learn nouns for parts of the face and body</p> <p>Design and describe a monster picture (link to Dinosaurs?)</p>	<p>Learn words for key shapes (link to Maths)</p> <p>Learn how to describe prepositions of place</p>	<p>Describe my family</p> <p>Describe appearances using appropriate adjectives</p>	<p>Listen and follow a story (The Giant Turnip)</p> <p>Retell a story</p>
<p>Music</p> <p>Whole year:</p> <p>Sing songs</p> <ul style="list-style-type: none"> • Play tuned & untuned instruments musically • Listen & understand live and recorded music • Make and combine sounds 	<ul style="list-style-type: none"> - play and perform in solo and ensemble contexts, using their voices and playing musical instruments with increasing accuracy, fluency, control and expression - improvise and compose music for a range of purposes using the inter-related dimensions of music - listen with attention to detail and recall sounds with increasing aural memory - use and understand staff and other musical notations - appreciate 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 		<ul style="list-style-type: none"> - play and perform in solo and ensemble contexts, using their voices and playing musical instruments with increasing accuracy, fluency, control and expression - improvise and compose music for a range of purposes using the inter-related dimensions of music - listen with attention to detail and recall sounds with increasing aural memory - use and understand staff and other musical notations - appreciate 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 		<ul style="list-style-type: none"> - play and perform in solo and ensemble contexts, using their voices and playing musical instruments with increasing accuracy, fluency, control and expression - improvise and compose music for a range of purposes using the inter-related dimensions of music - listen with attention to detail and recall sounds with increasing aural memory - use and understand staff and other musical notations - appreciate 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 	

musically						
Physical Education	<p>Netball (Outdoor) Apply fundamental movement skills to netball activities.</p> <p>Demonstrate movements and skills that link together in competitive scenarios.</p>	<p>Basketball Children can select and demonstrate basic skills, actions and ideas and link these in ways that suit the activity.</p> <p>They begin to show some understanding of simple tactics and basic compositional ideas. Skills, action and ideas appropriately, applying them with co-ordination and control.</p>	<p>Gymnastics Children link skills, techniques and ideas and apply them accurately and appropriately. Their performance shows precision, control and fluency.</p> <p>Children show cooperation whilst working in small groups and are able to produce routines which include a variety of jumps, balances and travels.</p>	<p>Hockey Children can identify how to perform the key skills in hockey using the correct technique.</p> <p>Children are developing the ability to demonstrate basic skills such as a push pass and Indian dribble.</p>	<p>Cricket Children are applying fundamental movement skills of striking, catching and throwing to a range of cricket activities.</p> <p>Developing knowledge to identify how to perform basic batting shots and fielding techniques.</p>	<p>Athletics – Track Children use fundamental movements to explore a range of skills. Children are able to copy, repeat and demonstrate basic actions with confidence, control and co-ordination.</p> <p>Continue to embed fundamental movement skills ready to compete in sportsday.</p>