Herrick Primary School

National Curriculum 2014 Planning Document



Statutory Requirements

Year 6

(Documentation produced in collaboration with Gaywood Community Primary School)

This document contains all of the statutory requirements of the National Curriculum (2014) broken down by subject. Please note this document should also be read in conjunction with the English and Maths appendices.

The document is to support the long, medium and short term planning processes to ensure both full coverage and progression. In the non-core subjects it is important that Key Stage teams plan for progression as this is not prescribed within the curriculum document. This document will form the start of the planning process and can be used as a monitoring tool to ensure all elements of the core areas are covered within the National Curriculum Year Group.

			ENGLISH			
Spoken Word	Word Reading	Comprehension	Writing – transcription	Writing – Handwriting	Writing – Composition	Writing – Grammar, Vocabulary and Punctuation
taught to: Iisten and respond appropriat ely to adults and their peers ask relevant questions to extend their understan	Pupils should be taught to: apply their growing knowledge of root words, prefixes and suffixes (morphology and etymology), as listed in English Appendix 1, both to read aloud and to understand the meaning of new words that they meet.	Pupils should be taught to: maintain positive attitudes to reading and understanding of what they read by: continuing to read and discuss an increasingly 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 increasing their familiarity with a wide range of books, including myths, legends and traditional stories, modern fiction, fiction from our literary heritage, and books from other cultures and traditions recommending books that they	Spelling (see English Appendix 1) Pupils should be taught to: use further prefixes and suffixes and understand the guidance for adding them spell some words with 'silent' letters [for example, knight, psalm, solemn] continue to distinguish between homophones and other words which are often confused use knowledge of morphology and etymology in spelling and understand that the spelling of some words needs to be learnt specifically, as listed in English Appendix 1 use dictionaries to check the spelling and meaning of words use the first three or four letters of a word to check spelling, meaning or both of these in a dictionary use a thesaurus.	Pupils should be taught to: write legibly, fluently and with increasing speed by: choosing which shape of a letter to use when given choices and deciding whether or not to join specific little choosing the writing implement that is best suited for a task.	Pupils should be taught to: plan their writing by: identifying the audience for and purpose of the writing, selecting the appropriate form and using other similar writing as models for their own noting and developing initial ideas, drawing on reading and research where necessary in writing narratives, considering how authors have developed characters and settings in what pupils have read, listened to or seen performed draft and write by: selecting appropriate grammar and vocabulary, understanding	Pupils should be taught to: develop their understanding of the concepts set out in English Appendix 2 by: recognising vocabulary and structures that are appropriate for formal speech and writing, including subjunctive forms using passive verbs to affect the presentation of information in a sentence using the perfect form of verbs to mark relationships of time and cause using expanded noun phrases to convey complicated information concisely using modal verbs or adverbs to indicate degrees of possibility using relative clauses beginning with who, which, where, when,

structured	have read to their	how such choices whose, that or with
descriptio	peers, giving	can change and an implied (i.e.
ns,	reasons for their	enhance meaning omitted) relative
explanati	choices	■ in narratives, pronoun
ons and	■ identifying and	describing learning the
narratives	discussing	settings, grammar for years
for	themes and	characters and 5 and 6 in English
different	conventions in	atmosphere and Appendix 2
purposes,	and across a wide	integrating Indicate grammatical and
including	range of writing	dialogue to other features by:
for	making	convey character using commas to
expressin	comparisons	and advance the clarify meaning or
g feelings	within and across	action avoid ambiguity in
maintain	books	■ précising longer writing
attention	■ learning a wider	passages using hyphens to
and	range of poetry by	■ using a wide avoid ambiguity
participat	heart	range of devices using brackets,
e actively	 preparing poems 	to build cohesion dashes or commas
in	and plays to read	within and across to indicate
collaborat	aloud and to	paragraphs parenthesis
ive	perform, showing	 using further using semi-colons,
conversat	understanding	organisational colons or dashes to
ions,	through	and colors of dashes to
staying	intonation, tone	presentational
on topic	and volume so	devices to independent
and	that the meaning	structure text and clauses
initiating and	is clear to an	to guide the
respondin	audience	reader [10]
g to	understand what they	example,
comment	read by:	
S	· ·	and additional
	 checking that the 	doc and understand
• use	book makes	evaluate and edit by: the grammatical
spoken	sense to them, discussing their	 assessing the terminology in
language	understanding	effectiveness of English Appendix 2
to	and exploring the	their own and accurately and
develop	meaning of words	others' writing appropriately in discussing their
understan	in context	proposing discussing their writing and reading.
ding	III CONTOAL	changes to writing and reading.

through	 asking questions 	vocabulary,
speculatin	to improve their	grammar and
g,	understanding	punctuation to
hypothesi	drawing	enhance effects
sing,	inferences such	and clarify
imagining	as inferring	meaning
and	characters'	ensuring the
exploring	feelings, thoughts	consistent and
ideas	and motives from	correct use of
	their actions, and	tense throughout
• speak	justifying	a piece of writing
audibly		
and	inferences with	 ensuring correct
fluently	evidence	subject and verb
with an	predicting what	agreement when
increasin	might happen	using singular
g	from details	and plural,
command	stated and implied	distinguishing
of	summarising the	between the
Standard	main ideas drawn	language of
English	from more than	speech and
	one paragraph,	writing and
participat	identifying key	choosing the
e in	details that	appropriate
discussio	support the main	register
ns,	ideas	proof-read for
presentati		· · · · · · · · · · · · · · · · · · ·
ons,	identifying how	spelling and
performa	language,	punctuation
nces, role	structure and	errors
play,	presentation	perform their own
improvisa	contribute to	compositions,
tions and	meaning	using appropriate
debates	discuss and evaluate how	intonation,
• gain,	authors use language,	volume, and
maintain	including figurative	movement so that
		meaning is clear.
and	language, considering the	mouning to olour.
monitor	impact on the reader	
the	distinguish between	
interest of	statements of fact and	
the		

listener(s)	opinion		
 consider and evaluate different viewpoint s, attending to and building on the contributi ons of 	 retrieve, record and present information from non-fiction participate in discussions about books that are read to them and those they can read for themselves, building on their own and others' ideas and challenging views courteously explain and discuss their 		
select and use appropriat e registers for effective communi cation.	understanding of what they have read, including through formal presentations and debates, maintaining a focus on the topic and using notes where necessary provide reasoned justifications for their views.		

				Maths				
Number – Number and Place Value Pupils should be taught to:	Number – Addition and subtraction, Multiplication and division	Number – fractions inc decimals & % Pupils should be taught to:	Ratio & Proportion Pupils should be taught to:	Algebra Pupils should be taught to:	Measurement Pupils should be taught to:	Geometry Properties of shape Pupils should be taught to:	Geometry Position & Direction Pupils should be taught to:	Statistics Pupils should be taught to:
 read, write, order and compare numbers up to 10 000 000 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 solve number and practical problems that involve all of the 	 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 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 	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	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	 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 problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate 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 	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, quadrilateral s, and regular polygons illustrate	describe position s on the full coordin ate grid (all four quadran ts) draw and translat e simple shapes on the coordin ate plane, and reflect them in the axes.	 interpret and construc t pie charts and line graphs and use these to solve problem calculate and interpret the mean as an average.

	<u>, </u>					
above.	calculations,	simplest form	where the	 recognise that 	and name	
	including with mixed	[for example,	scale factor is	shapes with the	parts of	
	operations and large	$\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$	known or can	same areas can	circles,	
	numbers	4 ^ 2 - 8 1	be found	have different	including	
	 identify common 	 divide proper 	solve	perimeters and	radius,	
	factors, common	fractions by	problems	vice versa	diameter	
	multiples and prime	whole numbers	involving	 recognise when 	and	
	numbers	[for example,	unequal	it is possible to	circumferen	
	Tumbers	1 1,	sharing and	use formulae for	ce and	
	 use their knowledge 	$\frac{1}{3} \div 2 = \frac{1}{6}$	grouping	area and volume	know that	
	of the order of	 associate a 	using	of shapes	the diameter	
	operations to carry	fraction with	knowledge of	or onapoo	is twice the	
	out calculations	division and	fractions and	 calculate the 	radius	
	involving the four	calculate	multiples.	area of	recognise	
	operations	decimal	manipioo.	parallelograms	angles	
	solve addition and	fraction		and triangles	where they	
	subtraction multi-step	equivalents [for		 calculate, 	meet at a	
	problems in contexts,	example,		estimate and	point, are on	
	deciding which	0.375] for a		compare volume	a straight	
	operations and	simple fraction		of cubes and	line, or are	
	methods to use and	[for example,		cuboids using	vertically	
	why	$\frac{3}{8}$]		standard units,	opposite,	
		81		including cubic	and find	
	solve problems	 identify the 		centimetres	missing	
	involving addition,	value of each		(cm ³) and cubic	angles.	
	subtraction,	digit in		metres (m ³), and	3	
	multiplication and	numbers given		extending to		
	division	to three		other units [for		
	 use estimation to 	decimal places		example, mm ³		
	check answers to	and multiply		and km ³].		
	calculations and	and divide		aa j.		
	determine, in the	numbers by				
	context of a problem,	10, 100 and				
	an appropriate	1000 giving				
	degree of accuracy.	answers up to				
	asg. se or accuracy.	three decimal				
		places				
		 multiply one- 				
		 multiply one- digit numbers 				
		aigit 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			
 solve problems 			
which require			
answers to be			
rounded to			
specified			
degrees of			
accuracy			
recall and use			
equivalences			
between			
simple			
fractions,			
decimals and			
percentages,			
including in			
different			
contexts.			

	Science									
Working Scientifically	Living things and their habitats	Animals, inc Humans	Evolution & Inheritance	Light	Electricity					
During years 5 and 6, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content: planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs using test results to make predictions to set up further comparative and fair tests reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and	Pupils should be taught to: describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals give reasons for classifying plants and animals based on specific characteristics.	Pupils should be taught to: identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function describe the ways in which nutrients and water are transported within animals, including humans.	Pupils should be taught to: recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.	Pupils should be taught to: recognise that light appears to travel in straight lines use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.	Pupils should be taught to: associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches use recognised symbols when representing a simple circuit in a diagram.					

degree of trust in results, in oral and written forms such as displays and other presentations			
 identifying scientific evidence that has been used to support or refute ideas or arguments. 			

			Non-Core Subje	ects			
Art & Design	Computing	Design &	Geography	History	MFL	Music	PE
		Technology		•			
Pupils should be taught to develop their techniques, including their control and their use of materials, with creativity, experimentation and an increasing awareness of different kinds of art, craft and design. Pupils should be	Pupils should be taught to: design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts	Technology Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of relevant contexts [for example, the home,	Pupils should extend their knowledge and understanding beyond the local area to include the United Kingdom and Europe, North and South America. This will include the location and characteristics of a range of the world's most significant human and physical features. They should develop their use of geographical knowledge, understanding and skills to enhance their	Pupils should continue to develop a chronologically secure knowledge and understanding of British, local and world history, establishing clear narratives within and across the periods they study. They should note connections, contrasts	Pupils should be taught to: Iisten attentively to spoken language and show understanding by joining in and	Pupils should be taught to: play and perform in solo and ensemble contexts, using their voices and playing musical instruments with increasing accuracy,	Pupils should be taught to: use running, jumping, throwing and catching in isolation and in combination play competitive games,
taught: to create sketch books to record their observations and use them to review and revisit ideas to improve their mastery of art and design techniques, including drawing, painting and sculpture with a range of materials [for example, pencil, charcoal, paint, clay]	 use sequence, selection, and repetition in programs; work with variables and various forms of input and output use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the 	school, leisure, culture, enterprise, industry and the wider environment]. When designing and making, pupils should be taught to: **Design** use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups generate, develop, model and	locational and place knowledge. Pupils should be taught to: Locational knowledge 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 name and locate counties and cities of the United Kingdom, geographical regions and their identifying human and physical characteristics, key topographical features	and trends over time and develop the appropriate use of historical terms. They should regularly address and sometimes devise historically valid questions about change, cause, similarity and difference, and significance. They should construct informed responses that involve thoughtful selection and organisation of relevant historical information. They should understand how our knowledge of the past is constructed from a range of sources. In planning to ensure the progression described above	responding explore the patterns and sounds of language through songs and rhymes and link the spelling, sound and meaning of words engage in conversations; ask and answer questions; express opinions and respond to those of others;	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	modified where appropriate [for example, badminton, basketball, cricket, football, hockey, netball, rounders and tennis], and apply basic principles suitable for attacking and defending develop flexibility, strength, technique, control and balance [for example, through athletics and gymnastics]

artists,	opportunities they	communicate	(including hills,	through teaching the	seek	high-quality live	 perform dances
architects and	offer for	their ideas	mountains, coasts and	British, local and	clarification	and recorded	using a range
designers in	communication and	through	rivers), and land-use	world history outlined	and help*	music drawn	of movement
history.	collaboration	discussion,	patterns; and	below, teachers	aa	from different	patterns
	00110001011011	annotated	understand how some	should combine	speak in	traditions and	
	 use search 	sketches, cross-	of these aspects have	overview and depth	sentences,	from great	 take part in
	technologies	sectional and	changed over time	studies to help pupils understand both the	using	composers and	outdoor and
	effectively,	exploded		long arc of	familiar	musicians	adventurous
	appreciate how	diagrams,	 identify the position and 	development and the	vocabulary,		activity
	results are selected	prototypes,	significance of latitude,	complexity of specific	phrases	develop an	challenges
	and ranked, and be	pattern pieces	longitude, Equator,	aspects of the	and basic	understanding	both
	discerning in	and computer-	Northern Hemisphere,	content.	language	of the history of	individually and
	evaluating digital	aided design	Southern Hemisphere,	Pupils should be	structures	music.	within a team
	content	and a decorgon	the Tropics of Cancer	taught about:	develop		 compare their
	select, use and	Make	and Capricorn, Arctic	 changes in 	accurate		performances
	combine a variety	 select from and 	and Antarctic Circle, the	Britain from the	pronunciati		with previous
	of software	use a wider	Prime/Greenwich	Stone Age to	on and		ones and
	(including internet	range of tools	Meridian and time	the Iron Age	intonation		demonstrate
	services) on a	and equipment	zones (including day	- the Demon	so that		improvement to
	range of digital	to perform	and night)	• the Roman	others		achieve their
	devices to design	practical tasks		Empire and its	understand		personal best.
	and create a range	[for example,	Place knowledge	impact on	when they		p =
	of programs,	cutting, shaping,	 understand 	Britain	are reading		
	systems and	joining and	geographical similarities	 Britain's 	aloud or		
	content that	finishing],	and differences through	settlement by	using		
	accomplish given	accurately	the study of human and	Anglo-Saxons	familiar		
	goals, including	and and former and	physical geography of a	and Scots	words and		
	collecting,	select from and	region of the United	- the Viking and	phrases*		
	analysing,	use a wider	Kingdom, a region in a	the Viking and Apple Course	·		
	evaluating and	range of materials and	European country, and	Anglo-Saxon struggle for the	present		
	presenting data		a region within North or South America	Kingdom of	ideas and		
	and information	components,	South America	England to the	information		
		including		time of Edward	orally to a		
	 use technology 	construction	Human and physical	the Confessor	range of		
	safely, respectfully	materials, textiles and	geographydescribe and	the Comessor	audiences*		
	and responsibly;	ingredients,	understand key aspects	 a local history 	read		
	recognise	according to	of:	study	carefully		
	acceptable/unacce	their functional		a study of an	and show		
	ptable behaviour;	properties and	 physical 	a study of all	understandi		
	identify a range of		geography,	aspect or	ng of		
	ways to report	aesthetic	including:	theme in British			

concerns about	qualities	climate zones,	history that	words,	
content and	quanties	biomes and	extends pupils'	phrases	
contact.	Fugluate	vegetation	chronological	and simple	
contact.	Evaluateinvestigate and	belts, rivers,	knowledge	writing	
	analyse a range		<u>-</u>	witting	
	of existing	mountains,	beyond 1066	 appreciate 	
	_	volcanoes and	the	stories,	
	products	earthquakes,	achievements	songs,	
	 evaluate their 	and the water	of the earliest	poems and	
	ideas and	cycle	civilizations -	rhymes in	
	products	human	an overview of	the	
	against their	geography,	where and	language	
	own design	including: types	when the first	h a se a de se	
	criteria and	of settlement	civilizations	 broaden 	
	consider the	and land use,	appeared and a	their	
	views of others	economic	depth study of	vocabulary	
	to improve their	activity	one of the	and	
	work	including trade	following:	develop	
	understand how	links, and the	Ancient Sumer;	their ability to	
	key events and	distribution of	The Indus	understand	
	individuals in	natural	Valley; Ancient		
	design and	resources	Egypt; The	new words that are	
	technology have	including	Shang Dynasty	introduced	
	helped shape	energy, food,	of Ancient	into familiar	
	the world	minerals and	China	written	
	ano mond	water		material,	
	Technical knowledge		 Ancient Greece 	including	
	apply their	Geographical skills and	a study of	through	
	understanding	fieldworkuse maps, atlases,	Greek life and	using a	
	of how to	globes and	achievements	dictionary	
	strengthen,	digital/computer	and their	dictionary	
	stiffen and	mapping to locate	influence on	write	
	reinforce more	countries and describe	the western	phrases	
	complex	features studied	world	from	
	structures			memory,	
		 use the eight points of a 	a non-	and adapt	
	 understand and 	compass, four and six-	European	these to	
	use mechanical	figure grid references,	society that	create new	
	systems in their	symbols and key	provides	sentences,	
	products [for	(including the use of	contrasts with	to express	
	example, gears,	Ordnance Survey	British history -	ideas	

	pulleys, cams,	maps) to build their	one study	clearly	
	levers and	knowledge of the	chosen from:	 describe 	
	linkages]	United Kingdom and	early Islamic	people,	
	 understand and 	the wider world	civilization,	places,	
	use electrical	use fieldwerk to sheem to	including a	·	
		use fieldwork to observe,	study of	things and	
	systems in their	measure, record and present	Baghdad c. AD	actions	
	products [for	the human and physical	900; Mayan	orally* and	
	example, series	features in the local area	civilization c.	in writing	
	circuits	using a range of methods,	AD 900; Benin	 understand 	
	incorporating	including sketch maps, plans	(West Africa) c.	basic	
	switches, bulbs,	and graphs, and digital	AD 900-1300.	grammar	
	buzzers and	technologies.		appropriate	
	motors]			to the	
	apply their			language	
	understanding			being	
	of computing to			studied,	
	program,			including	
	monitor and			(where	
	control their			relevant):	
	products.			feminine,	
	products.				
	0 11 1 431			masculine	
	Cooking and nutrition			and neuter	
				forms and	
	understand and			the	
	apply the			conjugation	
	principles of a			of high-	
	healthy and			frequency	
	varied diet			verbs; key	
	prepare and			features	
	cook a variety of			and	
	predominantly			patterns of	
	savoury dishes			the	
	=			language;	
	using a range of			how to	
	cooking			apply	
	techniques			these, for	
	understand			instance, to	
	seasonality, and			build	
	know where and			sentences;	
	cc.o and				

	ow a variety of	and how	
ing	gredients are	these diffe	•
gro	rown, reared,	from or are	
car	aught and	similar to	
pro	rocessed.	English.	
		The starred (*)	
		content above	
		will not be	
		applicable to	
		ancient	
		languages.	