National Curriculum 2014 Planning Document

Statutory Requirements Year 6

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
Pupils should be taught to: Ilisten and respond appropriat ely to adults and their peers ask relevant questions to extend their understan ding and knowledg e use relevant strategies to build their vocabular y articulate and justify answers, argument s and opinions give well-	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: I plan their writing by: I identifying the audience for and purpose of the writing, selecting the appropriate form and using other similar writing as models for their own I noting and developing initial ideas, drawing on reading and research where necessary I 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
for		convey character
expressin	9	and advance the using commas to
g feelings	comparisons	clarify meaning or
■ maintain	within and across	avoid ambiguity in
- maintain	books	passages writing
attention	 learning a wider 	using hypnens to
and	range of poetry by	 using a wide avoid ambiguity
participat	heart	range of devices using brackets,
e actively	preparing poems	to build conesion dashes or commas
in	and plays to read	within and across to indicate
collaborat	aloud and to	paragraphs
ive	perform, showing	using furtherusing semi-colons,
conversat	understanding	organisational colons or dashes to
ions,	through	and mark boundaries
staying	intonation, tone	presentational
on topic	and volume so	devices to between
and	that the meaning	structure text and independent
initiating	is clear to an	to guide the clauses
and	audience	reader [for using a colon to
respondin	addionoc	example, introduce a list
g to	understand what they	headings, bullet • punctuating bullet
comment	read by:	points, points consistently
s	checking that the	underlining] use and understand
use	book makes	evaluate and edit by: the grammatical
spoken	sense to them.	torminglowin
language	discussing their	English Appendix 2
	understanding	Checkveriess of
to	and exploring the	their own and
develop	meaning of words	others' writing appropriately in discussing their
understan	in context	 proposing writing and reading.
ding	III OOMOX	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
speak	their actions, and	tense throughout
opoun	justifying	a piece of writing
audibly	inferences with	■ ensuring correct
and	evidence	subject and verb
fluently with an		agreement when
	producting max	using singular
increasin	might happen	and plural,
g command	from details stated and implied	distinguishing
of	· ·	between the
Standard	 summarising the 	language of
English	main ideas drawn	speech and
Eligiisti	from more than	writing and
participat	one paragraph,	choosing the
e in	identifying key	appropriate
discussio	details that	register
ns,	support the main	
presentati	ideas	 proof-read for
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
and	language, considering the	meaning is clear.
monitor	impact on the reader	
the		
interest of	 distinguish between 	
the	statements of fact and	
uic		

listener(s)	opinion		
consider and evaluate different viewpoint s, attending to and building on the contributi ons of others select and use appropriat e registers for effective communi cation.	 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 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	Number – Addition and subtraction, Multiplication and division	Number – fractions inc decimals & %	Ratio & Proportion	Algebra	Measurement	Geometry Properties of shape	Geometry Position & Direction	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	Pupils should be taught to: 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	Pupils should be taught to: 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	Pupils should be taught to: 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 the calculation of solve percentages for solve problems involving similar shapes	Pupils should be taught to: 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.	Pupils should be taught to: 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	Pupils should be taught to: 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	Pupils should be taught to: 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.	Pupils should be taught to: Interpret and construc t pie charts and line graphs and use these to solve problem Calculate and interpret the mean as an average.

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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	
		$\frac{1}{3} \div 2 = \frac{1}{6}$	sharing and	use formulae for	ce and	
	 use their knowledge 	3 . 2 - 6 1	grouping	area and volume	know that	
	of the order of	 associate a 	using	of shapes	the diameter is twice the	
	operations to carry	fraction with	knowledge of	 calculate the 	radius	
	out calculations	division and	fractions and	 calculate the area of 	radius	
	involving the four operations	calculate	multiples.	parallelograms	recognise	
	operations	decimal		and triangles	angles	
	 solve addition and 	fraction		and mangics	where they	
	subtraction multi-step	equivalents [for		 calculate, 	meet at a	
	problems in contexts,	example, 0.375] for a		estimate and	point, are on	
	deciding which	simple fraction		compare volume	a straight	
	operations and	[for example,		of cubes and	line, or are	
	methods to use and			cuboids using	vertically	
	why	$\frac{3}{8}$]		standard units,	opposite,	
	 solve problems 	identify the		including cubic	and find	
	involving addition,	value of each		centimetres	missing	
	subtraction,	digit in		(cm ³) and cubic metres (m ³), and	angles.	
	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		ana kin j.		
	determine, in the	numbers by				
	context of a problem,	10, 100 and				
	an appropriate	1000 giving				
	degree of accuracy.	answers up to				
		three decimal				
		places				
		multiply one-				
		digit numbers				
		digit fluffibers				

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			
ideas or arguments.			
 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
Ü	, ,	Technology		,			
Pupils should be	Pupils should be taught to:	Through a variety of	Pupils should extend their	Pupils should continue	Pupils should be	Pupils should be	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 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	Technology	G , ,	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 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		Pupils should be taught to: 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	
example, pencil, charcoal, paint, clay]	internet; how they can provide multiple services, such as the world wide web; and the	individuals or groups generate, develop, model	geographical regions and their identifying human and physical characteristics, key	the past is constructed from a range of sources. In planning to ensure the progression	opinions and respond to those of	musical notations appreciate and understand a	balance [for example, through athletics and
 about great 	wide web, and the	and	topographical features	described above	others;	wide range of	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	and noip	from different	patterns
Tillotory.	oonaboration	annotated	understand how some	should combine	speak in	traditions and	pattorno
	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	using	composers and	outdoor and
	effectively,	exploded	changed over time	understand both the	familiar	musicians	adventurous
	appreciate how	diagrams,	 identify the position and 	long arc of development and the	vocabulary,	musicians	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	alded design	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		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		personal best.
	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		physical geography of a	and Scots	words and		
	collecting,	 select from and 	region of the United		phrases*		
	analysing,	use a wider	Kingdom, a region in a	 the Viking and 	priidoco		
	evaluating and	range of	European country, and	Anglo-Saxon	present		
	presenting data	materials and	a region within North or	struggle for the	ideas and		
	and information	components,	South America	Kingdom of	information		
	and information	including		England to the	orally to a		
	 use technology 	construction	Human and physical	time of Edward	range of		
	safely, respectfully	materials,	geography ■ describe and	the Confessor	audiences*		
	and responsibly;	textiles and	understand key aspects	 a local history 	read		
	recognise	ingredients,	of:	study	carefully		
	acceptable/unacce	according to			and show		
	ptable behaviour;	their functional	physical	 a study of an 	understandi		
	identify a range of	properties and	geography,	aspect or	ng of		
	ways to report	aesthetic	including:	theme in British	ng oi		

Г		lisi	l alimenta morrar	la i a tamu tila a t		_	
	concerns about	qualities	climate zones,	history that	words,		
	content and		biomes and	extends pupils'	phrases		
	contact.	Evaluate	vegetation	chronological	and simple		
		 investigate and 	belts, rivers,	knowledge	writing		
		analyse a range	mountains,	beyond 1066	appreciate		
		of existing	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	language		
		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		
		WOIK	links, and the	Ancient Sumer:	their ability		
		understand how	distribution of	The Indus	to		
		key events and	natural		understand		
		individuals in	resources	Valley; Ancient	new words		
		design and	including	Egypt; The Shang Dynasty	that are		
		technology have	energy, food,		introduced		
		helped shape	minerals and	of Ancient	into familiar		
		the world	water	China	written		
			water		material,		
		Technical knowledge	Geographical skills and	 Ancient Greece 	including		
		 apply their 	fieldwork	– a study of	through		
		understanding	use maps, atlases,	Greek life and	using a		
		of how to	globes and	achievements	dictionary		
		strengthen,	digital/computer	and their			
		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		
			<u> </u>			L	

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,		
	Caldwards to also area	including a	places,	
use electrical	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.	712 000 1000.	_	
motors]			appropriate to the	
- annly thair				
 apply their 			language	
understanding			being	
of computing to			studied,	
program,			including	
monitor and			(where	
control their			relevant):	
products.			feminine,	
			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	
			features	
prepare and			and	
cook a variety of			patterns of	
predominantly			the	
savoury dishes			language;	
using a range of			how to	
cooking			apply	
techniques			these, for	
- undorstand			instance, to	
 understand 			build	
seasonality, and			sentences;	
know where and			30111011003,	

how a	variety of	and how	
ingredi	ents are	these differ	
grown,	reared,	from or are	
caught	and	similar to	
proces	sed.	English.	
		The starred (*)	
		content above	
		will not be	
		applicable to	
		ancient	
		languages.	