Great Chart Primary School

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: listen 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 <u>Appendix 1</u> , 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 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,
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
expressin	•	and advance the using commas to
g feelings	comparisons within and across	clarify meaning or
maintain		■ précising longer writing
	books	passages writing
attention	 learning a wider 	 using nypnens 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 mark boundaries
staying	intonation, tone	presentational
on topic	and volume so	devices to independent
and	that the meaning	structure text and
initiating	is clear to an	to guide the
and	audience	reader [for using a colon to
respondin		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,	 assessing the terminology in
language	discussing their	effectiveness of English Appendix 2
to	understanding	their own and accurately and
develop	and exploring the	others' writing appropriately in
understan	meaning of words	discussing their
ding	in context	 proposing writing and reading
ang		changes to whiting and reading.

thursuals		
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	inferences with	
and	evidence	 ensuring correct
fluently		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		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		intonation,
	 discuss and evaluate how 	
 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	 distinguish between 	
interest of	statements of fact and	
the	statements of fact and	
uie		

Year 6 Curriculum overview map

listener(s)	opinion
 consider 	 retrieve, record and
and	present information from
evaluate	non-fiction
different viewpoint s, attending	 participate in discussions about books that are read to them and those they
to and building	can read for themselves, building on their own and others' ideas and
on the contributi ons of	challenging views courteously
others select and use appropriat e registers for effective communi	 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
cation.	 provide reasoned justifications for their views.

				Maths				
Number – Number and Place Value Pupils should be	Number – Addition and subtraction, Multiplication and division	Number – fractions inc decimals & %	Ratio & Proportion	Algebra	Measurement Pupils should be taught	Geometry Properties of shape Pupils should be	Geometry Position & Direction	Statistics Pupils should
 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 	 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 	 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 solve percentages 	 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. 	 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 	 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 	 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. 	 interpret and construc t pie charts and line graphs and use these to solve problem calculate and interpret the mean as an average.

Year 6 Curriculum overview map

above. 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 addition and subtraction multi-ste problems in contexts deciding which operations and methods to use and why • solve problems involving addition, subtraction, multiplication and division • solve problems involving addition, subtraction, multiplication and division	example, 0.375] for a simple fraction [for example, $\frac{3}{8}$] • identify the value of each 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	 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 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]. 	and name parts of circles, including radius, diameter and circumferen ce 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.
	 places multiply one- digit numbers 		

with up to two			
decimal places			
by whole			
numbers			
division			
methods in			
cases where			
the answer has			
up to two			
decimal places			
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 & Technology	Geography	History	MFL	Music	PE
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 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] •	upils 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 internet; how they can provide multiple services, such as the world wide web; and the	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, 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	 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 locational and place knowledge. Pupils should be taught to: 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 	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 the past is constructed from a range of sources. In planning to ensure the progression described above	 Pupils should be taught to: listen attentively to spoken language and show understandi ng by joining in and responding explore the patterns and sounds of language through songs and rhymes and link the spelling, sound and meaning of words engage in conversatio ns; ask and answer questions; express opinions and respond to those of others; 	 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 musical notations appreciate and understand a wide range of 	 Pupils should be taught to: use running, jumping, throwing and catching in isolation and in combination play competitive games, 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		from different		patterns
-		annotated	understand how some	should combine	 speak in 	traditions and		
	 use search 	sketches, cross-	of these aspects have	overview and depth studies to help pupils	sentences,	from great		take part in
	technologies	sectional and	changed over time	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		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 Roman	so that			improvement to
	range of digital	to perform	and night)	Empire and its	others			achieve their
	devices to design	practical tasks		impact on	understand			personal best.
	and create a range	[for example,	Place knowledge understand	Britain	when they			
	of programs,	cutting, shaping,			are reading			
	systems and	joining and	geographical similarities and differences through	 Britain's 	aloud or			
	content that	finishing],	0	settlement by	using			
	accomplish given	accurately	the study of human and physical geography of a	Anglo-Saxons	familiar			
	goals, including	 select from and 		and Scots	words and			
	collecting,	 select from and use a wider 	region of the United	 the Viking and 	phrases*			
	analysing,		Kingdom, a region in a European country, and	Anglo-Saxon				
	evaluating and	range of materials and	a region within North or	struggle for the	present			
	presenting data		South America	Kingdom of	ideas and			
	and information	components, including	South America	England to the	information			
	a standard and a standard	construction	Here we and short all	time of Edward	orally to a			
	 use technology 	materials,	Human and physical geography	the Confessor	range of			
	safely, respectfully	textiles and	 describe and 		audiences*			
	and responsibly;	ingredients,	understand key aspects	 a local history 	read			
	recognise	according to	of:	study	carefully			
	acceptable/unacce	their functional	physical	 a study of an 	and show			
	ptable behaviour;	properties and	geography,	aspect or	understandi			
	identify a range of	aesthetic	including:	theme in British	ng of			
	ways to report		including.		-			

Year 6 Curriculum overview map

 concorne about	qualities	olimata zanca		history that		words	
concerns about content and	qualities	climate zones, biomes and		extends pupils'		words, phrases	
	Probents					•	
contact.	<i>Evaluate</i>investigate and	vegetation		chronological		and simple	
	-	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			
	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	
	-	links, and the		Ancient Sumer;		their ability	
	 understand how 	distribution of		The Indus		to	
	key events and	natural		Valley; Ancient		understand	
	individuals in	resources		Egypt; The		new words	
	design and	including		Shang Dynasty		that are	
	technology have	energy, food,		of Ancient		introduced	
	helped shape	minerals and		China		into familiar	
	the world	water		Giilla		written	
				Annianto		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	
	1	1	I		I		1

pulleys, cams, maps) to build their	one study	clearly
levers and knowledge of the	chosen from:	describe
linkages] United Kingdom and	early Islamic	
 understand and 	civilization,	people, places,
use electrical use fieldwork to observe,	including a	things and
systems in their measure, record and present	study of	actions
products [for the human and physical	Baghdad c. AD	orally* and
example, series features in the local area	900; Mayan	in writing
circuits using a range of methods,	civilization c.	
incorporating including sketch maps, plans	,	 understand
switches, bulbs, and graphs, and digital	(West Africa) c.	basic
buzzers and technologies.	AD 900-1300.	grammar
motors]		appropriate
		to the
 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
prepare and		features and
cook a variety of		patterns of
predominantly		the
savoury dishes		language;
using a range of		how to
cooking		apply
techniques		these, for
		instance, to
 understand 		build
seasonality, and		sentences;
know where and		

h ^r	now a variety of		and how	
	ngredients are		these differ	
g	grown, reared,		from or are	
	caught and		similar to	
	processed.		English.	
			-	
		Th	he starred (*)	
			ontent above	
			vill not be	
			pplicable to	
			incient	
		lai	anguages.	