National Curriculum Map



Statutory Requirements Year 4

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.

	English (Year 4)									
Spoken Language	Word Reading	Comprehension	Writing – transcription	Writing – Handwriting	Writing – Composition	Writing – Grammar, Vocabulary and Punctuation				
 listen and respond appropriately to adults and their peers ask relevant questions to extend their understanding and knowledge use relevant strategies to build their vocabulary 	Pupils should be taught to: 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.	Pupils should be taught to: develop positive attitudes to reading and understanding of what they read by: Ilistening 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	Spelling (see English Appendix 1) Pupils should be taught to: use further prefixes and suffixes and understand how to add them (English Appendix 1) 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,	Pupils should be taught to: use the diagonal and horizontal strokes that are needed to join letters and understand which letters, when adjacent to one another, are best left unjoined 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	Pupils should be taught to: plan their writing by: 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: composing and rehearsing sentences orally (including dialogue), progressively building a varied and rich vocabulary and an increasing range of sentence structures (English Appendix 2)	Pupils should be taught to: develop their understanding of the concepts set out in English Appendix 2 by: 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				

	participate	retelling some of	dictated by the	spaced	 organising 	express time
	•	these orally	teacher, that	spaced	organionig	express time and cause
	actively in	triese orany	,	,	paragraphs	and cause
	collaborative	identifying	include words and	so that the	around a theme	using fronted
	conversations,	themes and	punctuation taught	ascenders	in narratives,	adverbials
	staying on topic	conventions in a	so far.	and 	creating settings,	learning the
	and initiating	wide range of		descenders	characters and	grammar for
	and responding	books preparing		of letters do	plot	years 3 and 4
	to comments	poems and play		not touch].	in non-narrative	in English
	use spoken	scripts to read			material, using	Appendix 2
	language to	aloud and to			simple	, appoint 2
	develop	perform, showing			organisational	 indicate grammatical
	understanding	understanding			devices [for	and other features by:
	through	through			example,	 using commas
	speculating,	intonation, tone,			headings and	after fronted
						adverbials
	hypothesising,	volume and action			sub-headings]	
	imagining and	action			evaluate and edit by:	indicating
	exploring ideas	 discussing words 			 assessing the 	possession by
	speak audibly	and phrases that			effectiveness of	using the
	and fluently	capture the			their own and	possessive
	with an	reader's interest			others' writing	apostrophe
	increasing	and imagination			•	with plural
	command of	recognising			and suggesting	nouns
	Standard	some different			improvements	using and
	English	forms of poetry			proposing	punctuating
		[for example,			changes to	direct speech
•	participate in	free verse,			grammar and	
	discussions,	narrative poetry]			vocabulary to	use and
	presentations,				improve	understand the
	performances,	 understand what they 			consistency,	grammatical
	role play,	read, in books they can			including the	terminology in
	improvisations	read independently, by:			accurate use of	English
	and debates	 checking that the 			pronouns in	Appendix 2
	gain, maintain	text makes			sentences	accurately and
-	and monitor the	sense to them,			 proof-read for spelling 	appropriately
		discussing their				when
	interest of the	understanding			and punctuation errors	discussing
	listener(s)	and explaining			 read aloud their own 	their writing
•	consider and	the meaning of			writing, to a group or the	and reading.
	evaluate	words in context			whole class, using	
	different	Words in some			appropriate intonation	

viewpoints,	 asking questions 	and controlling the tone
attending to	to improve their	and volume so that the
and building on	understanding of	meaning is clear.
the	a text	
contributions of	■ drawing	
others	inferences such	
	as inferring	
 select and use 	characters'	
appropriate	feelings,	
registers for	thoughts and	
effective	motives from	
communication.		
	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	

Γ		are read to them		
		and those they		
		can read for		
		themselves,		
		taking turns and		
		listening to what		
		others say.		

Maths (Year 4)							
	Number – Addition and subtraction	Number – Multiplication and division	Number – fractions inc decimals	Measurement	Geometry – Properties of shape	Geometry – Position and direction	Statistics
Pupils should be taught to: 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	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.	Pupils should be taught to: 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	Pupils should be taught to: recognise and show, using diagrams, families of common equivalent fractions 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	Pupils should be taught to: 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	Pupils should be taught to: 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.	Pupils should be taught to: 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.	Pupils should be taught to: 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.

different	 solve problems 	answer is a digital 12- and 24-
representations	involving	whole number hour clocks
	multiplying and	
• round any	adding, including	add and solve problems
number to the	using the	subtract involving
nearest 10, 100	distributive law to	fractions with converting from
or 1000	multiply two digit	the same hours to minutes;
 solve number 	numbers by one	denominator minutes to
and practical	digit, integer	seconds; years to recognise and
problems that	scaling problems	write decimal months, weeks to
involve all of	and harder	equivalents of days.
the above and	correspondence	any number of
with	problems such as	tenths or
increasingly	n objects are	hundredths
large positive	connected to m	
numbers	objects.	recognise and
Humbers	52,553.	write decimal
read Roman		equivalents to
numerals to		1 1 3
100 (I to C) and		$\frac{1}{4}, \frac{1}{2}, \frac{3}{4}$
know that over		• find the effect of
time, the		dividing a one-
numeral		or two-digit
system		number by 10
changed to		and 100,
include the		identifying the
concept of zero		value of the
and place		digits in the
value.		answer as
		ones, tenths
		and hundredths
		round decimals
		with one
		decimal place
		to the nearest
		whole number
		■ compare
		numbers with
		the same
		110 00110

	number of		
	decimal places		
	up to two		
	decimal places		
	 solve simple 		
	measure and		
	money		
	problems		
	involving		
	fractions and		
	decimals to two		
	decimal places.		

Science (Year 4)								
Working Scientifically	Living things and their habitats	Animals, inc Humans	State of Matter	Sound	Electricity			
During years 3 and 4, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content: - asking relevant questions and using different types of scientific enquiries to answer them (WS1) - setting up simple practical enquiries, comparative and fair tests (WS2) - making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers (WS3) - gathering, recording, classifying and presenting data in a variety of ways to help in answering questions (WS4) - recording findings using simple scientific language, drawings, labelled	Pupils should be taught to: recognise that living things can be grouped in a variety of ways (S1) explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment (S2) recognise that environments can change and that this can sometimes pose dangers to living things. (S3)	Pupils should be taught to: describe the simple functions of the basic parts of the digestive system in humans (S4) identify the different types of teeth in humans and their simple functions (S5) construct and interpret a variety of food chains, identifying producers, predators and prey. (S6)	Pupils should be taught to: compare and group materials together, according to whether they are solids, liquids or gases (S7) 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) (S8) identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature. (S9)	Pupils should be taught to: identify how sounds are made, associating some of them with something vibrating (S10) recognise that vibrations from sounds travel through a medium to the ear (S11) find patterns between the pitch of a sound and features of the object that produced it (S12) find patterns between the volume of a sound and the strength of the vibrations that produced it (S13) recognise that sounds get fainter as the distance from the sound source increases. (S14)	Pupils should be taught to: identify common appliances that run on electricity (S15) construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers (S16) 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 battery (S17) recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit (S18)			

diagrams, keys, bar charts, and tables (WS5) reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions (WS6)			recognise some common conductors and insulators, and associate metals with being good conductors. (S19)
using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions (WS7)			
 identifying differences, similarities or changes related to simple scientific ideas and processes (WS8) 			
 using straightforward scientific evidence to answer questions or to support their findings. (WS9) 			

	Non-Core Subjects (Key Stage 2 Objectives)										
Art & Design	Computing	Design & Technology	Geography	History	MFL	Music	PE				
Art & Design 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 (A1) to improve their mastery	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 (C1) use sequence, selection, and repetition in programs; work with variables and	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 (D1) generate, develop, model and communicate	Geography 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: 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	History 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	MFL Pupils should be taught to: Ilisten attentively to spoken language and show understanding by joining in and responding (F1) Explore the patterns and sounds of language through songs and rhymes and link the spelling, sound and meaning of words (F2) engage in conversations; ask and answer	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 (M1) improvise and compose music for a range of purposes	Pupils should be taught to: use running, jumping, throwing and catching in isolation and in combination (P1) play competitive games, modified where appropriate [for example, badminton, basketball, cricket, football, hockey, netball,				
their mastery of art and design techniques, including drawing, painting and sculpture with a range of materials [for example, pencil,	various forms of input and output (C2) use logical reasoning to explain how some simple algorithms work and to detect and	their ideas through discussion, annotated sketches, cross- sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design (D2) Make select from and use a wider range of tools and	characteristics, countries, and major cities (G1) name and locate counties and cities of the United Kingdom, geographical regions and their identifying human and physical characteristics, key	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 through teaching the British, local and	ask and answer questions; express opinions and respond to those of others; seek clarification and help* (F3) speak in sentences,	using the inter-related dimensions of music (M2) Ilisten with attention to detail and recall sounds	rounders and tennis], and apply basic principles suitable for attacking and defending (P2)				

charc	oai,
paint,	clay]
(A2)	

- about great artists. architects and designers in history. (A3)
- correct errors in algorithms and programs (C3)
- understand computer networks including the internet; how they can provide multiple services, such as the world wide web: and the opportunities they offer for communicatio n and collaboration (C4)
- use search technologies effectively, appreciate how results are selected and ranked. and be discerning in evaluating digital content (C5)
- select, use and combine a variety of software (including

- - 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 (D4)

equipment to perform

Ifor example, cutting,

shaping, joining and

finishing], accurately

practical tasks

(D3)

Evaluate

- investigate and analyse a range of existing products (D5)
- evaluate their ideas and products against their own design criteria and consider the views of others to improve their work (D6)
- understand how key events and individuals in design and technology have helped shape the world (D7)

Technical knowledge

apply their understanding of how to

- topographical features (including hills, mountains, coasts and rivers), and land-use patterns; and understand how some of these aspects have changed over time (G2)
- identify the position and significance of latitude, longitude, Equator, Northern Hemisphere, Southern Hemisphere, the Tropics of Cancer and Capricorn, Arctic and Antarctic Circle, the Prime/Greenwich Meridian and time zones (including day and night) (G3)

Place knowledge

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 within North or South America (G4)

- world history outlined below, teachers should combine overview and depth studies to help pupils understand both the long arc of development and the complexity of specific aspects of the content. Pupils should be taught about:
 - changes in Britain from the Stone Age to the Iron Age (H1)
- the Roman Empire and its impact on Britain (H2)
- Britain's settlement by Anglo-Saxons and Scots (H3)
- the Viking and Anglo-Saxon struggle for the Kingdom of England to the time of Edward the Confessor (H4)
- a local history study (H5)

using familiar vocabulary, phrases and basic language structures (F4)

develop

- accurate pronunciation and intonation so that others understand when they are reading aloud or using familiar words and phrases* (F5)
- present ideas and information orally to a range of audiences* (F6)
- and show understanding of words, phrases and simple writing (F7)
- poems and rhymes in the language

with increasing aural memory (M3)

use and

understand staff and other musical notations (M4)appreciate and understand

a wide

range of

live and

recorded

different

traditions

and from

composers

musicians

develop an

understandi

ng of the

history of

music.

(M6)

great

and

(M5)

drawn from

music

high-guality

- read carefully
- appreciate stories, songs, (F8)

flexibility, strength, technique, control and balance [for example, through athletics and gymnastics]

(P3)

develop

- perform dances using a range of movement patterns (P4)
- take part in outdoor and adventurous activity challenges both individually and within a team (P5)
- compare their performance s with previous ones and demonstrate improvemen t to achieve their personal

services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and information (C6) use technology safely, respectfully and responsibly; recognise acceptable/un acceptable behaviour; identify a range of ways to report concerns about content and contact.	•	describe and understand key aspects of: physical geography, including: climate zones, biomes and vegetation belts, rivers, mountains, volcanoes and earthquakes, and the water cycle (G5) 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 (G6)	 a study of an aspect or theme in British history that extends pupils' chronological knowledge beyond 1066 (H6) the achievements of the earliest civilizations – an overview of where and when the first civilizations appeared and a depth study of one of the following: Ancient Sumer; The Indus Valley; Ancient Egypt; The Shang Dynasty of Ancient China (H7) Ancient Greece – a study of Greek life and achievements and their influence on the western world (H8) 	broaden their vocabulary and develop their ability to understand new words that are introduced into familiar written material, including through using a dictionary (F9) write phrases from memory, and adapt these to create new sentences, to express ideas clearly (F10) describe people, places, things and actions orally* and in writing (F11)		best. (P6) Swimming and water safety Swim competently, confidently and proficiently over a distance of at least 25 metres (P7) use a range of strokes effectively [for example, front crawl, backstroke and breaststroke] (P8) perform safe self-rescue in different water-based situations (P9)
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	 (D13) understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed. (D14) 	fieldwork use maps, atlases, globes and digital/computer mapping to locate countries and describe features studied (G7) use the eight points of a compass, four and six-figure grid references, symbols and key (including the use of Ordnance Survey maps) to build their knowledge of the United Kingdom and the wider world (G8) 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. (G9)	European society that provides contrasts with British history – one study chosen from: early Islamic civilization, including a study of Baghdad c. AD 900; Mayan civilization c. AD 900; Benin (West Africa) c. AD 900-1300. (H9)	basic grammar appropriate to the language being studied, including (where relevant): feminine, masculine and neuter forms and the conjugation of high-frequency verbs; key features and patterns of the language; how to apply these, for instance, to build sentences; and how these differ from or are similar to English. (F12) The starred (*) content above will not be applicable to ancient languages.		
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