



Year 5

National

Curriculum



CHASE BRIDGE PRIMARY SCHOOL

Year 5 National Curriculum

Contents

p.3	English
p.45	Mathematics
p.56	Science
p.65	Art and Design
p.67	Computing
p.69	Design and technology
p.72	Geography
p.75	History
p.79	Languages
p.81	Music
p.83	Physical Education

English

Purpose of study

English has a pre-eminent place in education and in society. A high-quality education in English will teach pupils to speak and write fluently so that they can communicate their ideas and emotions to others and through their reading and listening, others can communicate with them. Through reading in particular, pupils have a chance to develop culturally, emotionally, intellectually, socially and spiritually. Literature, especially, plays a key role in such development. Reading also enables pupils both to acquire knowledge and to build on what they already know. All the skills of language are essential to participating fully as a member of society; pupils, therefore, who do not learn to speak, read and write fluently and confidently are effectively disenfranchised.

Aims

The overarching aim for English in the national curriculum is to promote high standards of language and literacy by equipping pupils with a strong command of the spoken and written word, and to develop their love of literature through widespread reading for enjoyment. The national curriculum for English aims to ensure that all pupils:

- read easily, fluently and with good understanding
- develop the habit of reading widely and often, for both pleasure and information
- acquire a wide vocabulary, an understanding of grammar and knowledge of linguistic conventions for reading, writing and spoken language
- appreciate our rich and varied literary heritage
- write clearly, accurately and coherently, adapting their language and style in and for a range of contexts, purposes and audiences
- use discussion in order to learn; they should be able to elaborate and explain clearly their understanding and ideas
- are competent in the arts of speaking and listening, making formal presentations, demonstrating to others and participating in debate.

Spoken language

The national curriculum for English reflects the importance of spoken language in pupils' development across the whole curriculum – cognitively, socially and linguistically. Spoken language underpins the development of reading and writing. The quality and variety of language that pupils hear and speak are vital for developing their vocabulary and grammar and their understanding for reading and writing. Teachers should therefore ensure the continual development of pupils' confidence and competence in spoken language and listening skills. Pupils should develop a capacity

to explain their understanding of books and other reading, and to prepare their ideas before they write. They must be assisted in making their thinking clear to themselves as well as to others and teachers should ensure that pupils build secure foundations by using discussion to probe and remedy their misconceptions. Pupils should also be taught to understand and use the conventions for discussion and debate.

All pupils should be enabled to participate in and gain knowledge, skills and understanding associated with the artistic practice of drama. Pupils should be able to adopt, create and sustain a range of roles, responding appropriately to others in role. They should have opportunities to improvise, devise and script drama for one another and a range of audiences, as well as to rehearse, refine, share and respond thoughtfully to drama and theatre performances.

Statutory requirements which underpin all aspects of spoken language across the six years of primary education form part of the national curriculum. These are reflected and contextualised within the reading and writing domains which follow.

Reading

The programmes of study for reading at key stages 1 and 2 consist of two dimensions:

- word reading
- comprehension (both listening and reading).

It is essential that teaching focuses on developing pupils' competence in both dimensions; different kinds of teaching are needed for each.

Skilled word reading involves both the speedy working out of the pronunciation of unfamiliar printed words (decoding) and the speedy recognition of familiar printed words. Underpinning both is the understanding that the letters on the page represent the sounds in spoken words. This is why phonics should be emphasised in the early teaching of reading to beginners (i.e. unskilled readers) when they start school.

Good comprehension draws from linguistic knowledge (in particular of vocabulary and grammar) and on knowledge of the world. Comprehension skills develop through pupils' experience of high-quality discussion with the teacher, as well as from reading and discussing a range of stories, poems and non-fiction. All pupils must be encouraged to read widely across both fiction and non-fiction to develop their knowledge of themselves and the world in which they live, to establish an appreciation and love of reading, and to gain knowledge across the curriculum. Reading widely and often increases pupils' vocabulary because they encounter words they would rarely hear or use in everyday speech. Reading also feeds pupils' imagination and opens up a treasure-house of wonder and joy for curious young minds.

It is essential that, by the end of their primary education, all pupils are able to read fluently, and with confidence, in any subject in their forthcoming secondary education.

Writing

The programmes of study for writing at key stages 1 and 2 are constructed similarly to those for reading:

- transcription (spelling and handwriting)
- composition (articulating ideas and structuring them in speech and writing).

It is essential that teaching develops pupils' competence in these two dimensions. In addition, pupils should be taught how to plan, revise and evaluate their writing. These aspects of writing have been incorporated into the programmes of study for composition.

Writing down ideas fluently depends on effective transcription: that is, on spelling quickly and accurately through knowing the relationship between sounds and letters (phonics) and understanding the morphology (word structure) and orthography (spelling structure) of words. Effective composition involves forming, articulating and communicating ideas, and then organising them coherently for a reader. This requires clarity, awareness of the audience, purpose and context, and an increasingly wide knowledge of vocabulary and grammar. Writing also depends on fluent, legible and, eventually, speedy handwriting.

Spelling, vocabulary, grammar, punctuation and glossary

The two statutory appendices – on [spelling](#) and on [vocabulary, grammar and punctuation](#) – give an overview of the specific features that should be included in teaching the programmes of study.

Opportunities for teachers to enhance pupils' vocabulary arise naturally from their reading and writing. As vocabulary increases, teachers should show pupils how to understand the relationships between words, how to understand nuances in meaning, and how to develop their understanding of, and ability to use, figurative language. They should also teach pupils how to work out and clarify the meanings of unknown words and words with more than one meaning. References to developing pupils' vocabulary are also included within the appendices.

Pupils should be taught to control their speaking and writing consciously and to use Standard English. They should be taught to use the elements of spelling, grammar, punctuation and 'language about language' listed. This is not intended to constrain or restrict teachers' creativity, but simply to provide the structure on which they can construct exciting lessons. A non-statutory [Glossary](#) is provided for teachers.

Throughout the programmes of study, teachers should teach pupils the vocabulary they need to discuss their reading, writing and spoken language. It is important that pupils learn the correct grammatical terms in English and that these terms are integrated within teaching.

School curriculum

The programmes of study for English are set out year-by-year for key stage 1 and two-yearly for key stage 2. The single year blocks at key stage 1 reflect the rapid pace of development in word reading during these two years. Schools are, however, only required to teach the relevant

programme of study by the end of the key stage. Within each key stage, schools therefore have the flexibility to introduce content earlier or later than set out in the programme of study. In addition, schools can introduce key stage content during an earlier key stage if appropriate. All schools are also required to set out their school curriculum for English on a year-by-year basis and make this information available online.

Attainment targets

By the end of each key stage, pupils are expected to know, apply and understand the matters, skills and processes specified in the relevant programme of study.

Schools are not required by law to teach the example content in [square brackets] or the content indicated as being ‘non-statutory’.

Spoken language – years 1 to 6

Spoken language

Statutory requirements

Pupils should be taught to:

- 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
- articulate and justify answers, arguments and opinions
- give well-structured descriptions, explanations and narratives for different purposes, including for expressing feelings
- maintain attention and participate actively in collaborative conversations, staying on topic and initiating and responding to comments
- use spoken language to develop understanding through speculating, hypothesising, imagining and exploring ideas
- speak audibly and fluently with an increasing command of Standard English
- participate in discussions, presentations, performances, role play, improvisations and debates
- gain, maintain and monitor the interest of the listener(s)
- consider and evaluate different viewpoints, attending to and building on the contributions of others
- select and use appropriate registers for effective communication.

Notes and guidance (non-statutory)

These statements apply to all years. The content should be taught at a level appropriate to the age of the pupils. Pupils should build on the oral language skills that have been taught in preceding years.

Pupils should be taught to develop their competence in spoken language and listening to enhance the effectiveness with which they are able to communicate across a range of contexts and to a range of audiences. They should therefore have opportunities to work in groups of different sizes – in pairs, small groups, large groups and as a whole class. Pupils should understand how to take turns and when and how to participate constructively in conversations and debates.

Attention should also be paid to increasing pupils' vocabulary, ranging from describing their

Notes and guidance (non-statutory)

immediate world and feelings to developing a broader, deeper and richer vocabulary to discuss abstract concepts and a wider range of topics, and to enhancing their knowledge about language as a whole.

Pupils should receive constructive feedback on their spoken language and listening, not only to improve their knowledge and skills but also to establish secure foundations for effective spoken language in their studies at primary school, helping them to achieve in secondary education and beyond.

Upper key stage 2 – years 5 and 6

By the beginning of year 5, pupils should be able to read aloud a wider range of poetry and books written at an age-appropriate interest level with accuracy and at a reasonable speaking pace. They should be able to read most words effortlessly and to work out how to pronounce unfamiliar written words with increasing automaticity. If the pronunciation sounds unfamiliar, they should ask for help in determining both the meaning of the word and how to pronounce it correctly.

They should be able to prepare readings, with appropriate intonation to show their understanding, and should be able to summarise and present a familiar story in their own words. They should be reading widely and frequently, outside as well as in school, for pleasure and information. They should be able to read silently, with good understanding, inferring the meanings of unfamiliar words, and then discuss what they have read.

Pupils should be able to write down their ideas quickly. Their grammar and punctuation should be broadly accurate. Pupils' spelling of most words taught so far should be accurate and they should be able to spell words that they have not yet been taught by using what they have learnt about how spelling works in English.

During years 5 and 6, teachers should continue to emphasise pupils' enjoyment and understanding of language, especially vocabulary, to support their reading and writing. Pupils' knowledge of language, gained from stories, plays, poetry, non-fiction and textbooks, will support their increasing fluency as readers, their facility as writers, and their comprehension. As in years 3 and 4, pupils should be taught to enhance the effectiveness of their writing as well as their competence.

It is essential that pupils whose decoding skills are poor are taught through a rigorous and systematic phonics programme so that they catch up rapidly with their peers in terms of their decoding and spelling. However, as far as possible, these pupils should follow the upper key stage 2 programme of study in terms of listening to books and other writing that they have not come across before, hearing and learning new vocabulary and grammatical structures, and having a chance to talk about all of these.

By the end of year 6, pupils' reading and writing should be sufficiently fluent and effortless for them to manage the general demands of the curriculum in year 7, across all subjects and not just in English, but there will continue to be a need for pupils to learn subject-specific vocabulary. They should be able to reflect their understanding of the audience for and purpose of their writing by selecting appropriate vocabulary and grammar. Teachers should prepare pupils for secondary education by ensuring that they can consciously control sentence structure in their writing and understand why sentences are constructed as they are. Pupils should understand nuances in vocabulary choice and age-appropriate, academic vocabulary. This involves consolidation, practice and discussion of language.

Specific requirements for pupils to discuss what they are learning and to develop their wider skills in spoken language form part of this programme of study. In years 5 and 6, pupils' confidence, enjoyment and mastery of language should be extended through public speaking, performance and debate.

Years 5 and 6 programme of study

Reading – word reading

Statutory requirements

Pupils should be taught to:

- apply their growing knowledge of root words, prefixes and suffixes (morphology and etymology), as listed in [English Appendix I](#), both to read aloud and to understand the meaning of new words that they meet.

Notes and guidance (non-statutory)

At this stage, there should be no need for further direct teaching of word reading skills for almost all pupils. If pupils are struggling or failing in this, the reasons for this should be investigated. It is imperative that pupils are taught to read during their last two years at primary school if they enter year 5 not being able to do so.

Pupils should be encouraged to work out any unfamiliar word. They should focus on all the letters in a word so that they do not, for example, read ‘invitation’ for ‘imitation’ simply because they might be more familiar with the first word. Accurate reading of individual words, which might be key to the meaning of a sentence or paragraph, improves comprehension.

When teachers are reading with or to pupils, attention should be paid to new vocabulary – both a word’s meaning(s) and its correct pronunciation.

Reading – comprehension

Statutory requirements

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

Statutory requirements

- recommending books that they have read to their peers, giving reasons for their choices
- identifying and discussing themes and conventions in and across a wide range of writing
- making comparisons within and across books
- learning a wider range of poetry by heart
- preparing poems and plays to read aloud and to perform, showing understanding through intonation, tone and volume so that the meaning is clear to an audience
- understand what they read by:
 - checking that the book makes sense to them, discussing their understanding and exploring the meaning of words in context
 - asking questions to improve their understanding
 - drawing inferences such as inferring characters' feelings, thoughts and motives from their actions, and justifying inferences with evidence
 - predicting what might happen from details stated and implied
 - summarising the main ideas drawn from more than one paragraph, identifying key details that support the main ideas
 - identifying how language, structure and presentation contribute to meaning
- discuss and evaluate how authors use language, including figurative language, considering the impact on the reader
- distinguish between statements of fact and opinion
- 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.

Notes and guidance (non-statutory)

Even though pupils can now read independently, reading aloud to them should include whole books so that they meet books and authors that they might not choose to read themselves.

The knowledge and skills that pupils need in order to comprehend are very similar at different ages. Pupils should continue to apply what they have already learnt to more complex writing.

Pupils should be taught to recognise themes in what they read, such as loss or heroism. They should have opportunities to compare characters, consider different accounts of the same event and discuss viewpoints (both of authors and of fictional characters), within a text and across more than one text.

They should continue to learn the conventions of different types of writing, such as the use of the first person in writing diaries and autobiographies.

Pupils should be taught the technical and other terms needed for discussing what they hear and read, such as metaphor, simile, analogy, imagery, style and effect.

In using reference books, pupils need to know what information they need to look for before they begin and need to understand the task. They should be shown how to use contents pages and indexes to locate information.

The skills of information retrieval that are taught should be applied, for example, in reading history, geography and science textbooks, and in contexts where pupils are genuinely motivated to find out information, for example, reading information leaflets before a gallery or museum visit or reading a theatre programme or review. Teachers should consider making use of any library services and expertise to support this.

Pupils should have guidance about and feedback on the quality of their explanations and contributions to discussions.

Pupils should be shown how to compare characters, settings, themes and other aspects of what they read.

Statutory requirements

Spelling (see [English Appendix I](#))

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 I
- 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.

Notes and guidance (non-statutory)

As in earlier years, pupils should continue to be taught to understand and apply the concepts of word structure so that they can draw on their knowledge of morphology and etymology to spell correctly.

Statutory requirements

Handwriting and presentation

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 letters
 - choosing the writing implement that is best suited for a task.

Notes and guidance (non-statutory)

Pupils should continue to practise handwriting and be encouraged to increase the speed of it, so that problems with forming letters do not get in the way of their writing down what they want to say. They should be clear about what standard of handwriting is appropriate for a particular task, for example, quick notes or a final handwritten version. They should also be taught to use an unjoined style, for example, for labelling a diagram or data, writing an email address, or for algebra and capital letters, for example, for filling in a form.

Writing – composition

Statutory requirements

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 how such choices can change and enhance meaning
 - in narratives, describing settings, characters and atmosphere and integrating dialogue to convey character and advance the action
 - précising longer passages
 - using a wide range of devices to build cohesion within and across paragraphs
 - using further organisational and presentational devices to structure text and to guide the reader [for example, headings, bullet points, underlining]
- evaluate and edit by:
 - assessing the effectiveness of their own and others' writing
 - proposing changes to vocabulary, grammar and punctuation to enhance effects and clarify meaning
 - ensuring the consistent and correct use of tense throughout a piece of writing
 - ensuring correct subject and verb agreement when using singular and plural, distinguishing between the language of speech and writing and choosing the appropriate register
- proof-read for spelling and punctuation errors
- perform their own compositions, using appropriate intonation, volume, and movement so

Statutory requirements

that meaning is clear.

Notes and guidance (non-statutory)

Pupils should understand, through being shown, the skills and processes essential for writing: that is, thinking aloud to generate ideas, drafting, and re-reading to check that the meaning is clear.

Writing – vocabulary, grammar and punctuation

Statutory requirements

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, whose, that or with an implied (i.e. omitted) relative pronoun
 - learning the grammar for years 5 and 6 in English Appendix 2
- indicate grammatical and other features by:
 - using commas to clarify meaning or avoid ambiguity in writing
 - using hyphens to avoid ambiguity
 - using brackets, dashes or commas to indicate parenthesis
 - using semi-colons, colons or dashes to mark boundaries between independent clauses
 - using a colon to introduce a list
 - punctuating bullet points consistently
- use and understand the grammatical terminology in English Appendix 2 accurately and appropriately in discussing their writing and reading.

Notes and guidance (non-statutory)

Pupils should continue to add to their knowledge of linguistic terms, including those to describe grammar, so that they can discuss their writing and reading.

English Appendix 1: Spelling

Most people read words more accurately than they spell them. The younger pupils are, the truer this is.

By the end of year 1, pupils should be able to read a large number of different words containing the GPCs that they have learnt, whether or not they have seen these words before. Spelling, however, is a very different matter. Once pupils have learnt more than one way of spelling particular sounds, choosing the right letter or letters depends on their either having made a conscious effort to learn the words or having absorbed them less consciously through their reading. Younger pupils have not had enough time to learn or absorb the accurate spelling of all the words that they may want to write.

This appendix provides examples of words embodying each pattern which is taught. Many of the words listed as 'example words' for years 1 and 2, including almost all those listed as 'exception words', are used frequently in pupils' writing, and therefore it is worth pupils learning the correct spelling. The 'exception words' contain GPCs which have not yet been taught as widely applicable, but this may be because they are applicable in very few age-appropriate words rather than because they are rare in English words in general.

The word-lists for years 3 and 4 and years 5 and 6 are statutory. The lists are a mixture of words pupils frequently use in their writing and those which they often misspell. Some of the listed words may be thought of as quite challenging, but the 100 words in each list can easily be taught within the four years of key stage 2 alongside other words that teachers consider appropriate.

The rules and guidance are intended to support the teaching of spelling. Phonic knowledge should continue to underpin spelling after key stage 1; teachers should still draw pupils' attention to GPCs that do and do not fit in with what has been taught so far. Increasingly, however, pupils also need to understand the role of morphology and etymology. Although particular GPCs in root words simply have to be learnt, teachers can help pupils to understand relationships between meaning and spelling where these are relevant. For example, understanding the relationship between *medical* and *medicine* may help pupils to spell the /s/ sound in *medicine* with the letter 'c'. Pupils can also be helped to spell words with prefixes and suffixes correctly if they understand some general principles for adding them. Teachers should be familiar with what pupils have been taught about spelling in earlier years, such as which rules pupils have been taught for adding prefixes and suffixes.

In this spelling appendix, the left-hand column is statutory; the middle and right-hand columns are non-statutory guidance.

The International Phonetic Alphabet (IPA) is used to represent sounds (phonemes). A table showing the IPA is provided in this document.

Spelling – years 5 and 6

Revise work done in previous years

New work for years 5 and 6

Statutory requirements	Rules and guidance (non-statutory)	Example words (non-statutory)
Endings which sound like /ʃəs/ spelt –cious or –tious	<p>Not many common words end like this.</p> <p>If the root word ends in –ce, the /ʃ/ sound is usually spelt as c – e.g. <i>vice</i> – <i>vicious</i>, <i>grace</i> – <i>gracious</i>, <i>space</i> – <i>spacious</i>, <i>malice</i> – <i>malicious</i>.</p> <p>Exception: <i>anxious</i>.</p>	<p>vicious, precious, conscious, delicious, malicious, suspicious</p> <p>ambitious, cautious, fictitious, infectious, nutritious</p>
Endings which sound like /ʃəl/	<p>–cial is common after a vowel letter and –tial after a consonant letter, but there are some exceptions.</p> <p>Exceptions: <i>initial</i>, <i>financial</i>, <i>commercial</i>, <i>provincial</i> (the spelling of the last three is clearly related to <i>finance</i>, <i>commerce</i> and <i>province</i>).</p>	<p>official, special, artificial, partial, confidential, essential</p>
Words ending in –ant, –ance/–ancy, –ent, –ence/–ency	<p>Use –ant and –ance/–ancy if there is a related word with a /æ/ or /eɪ/ sound in the right position; –ation endings are often a clue.</p> <p>Use –ent and –ence/–ency after soft c (/s/ sound), soft g (/dʒ/ sound) and qu, or if there is a related word with a clear /ɛ/ sound in the right position.</p> <p>There are many words, however, where the above guidance does not help. These words just have to be learnt.</p>	<p>observant, observance, (observ<u>a</u>tion), expectant (expect<u>a</u>tion), hesitant, hesitancy (hesit<u>a</u>tion), tolerant, tolerance (toler<u>a</u>tion), substance (subst<u>a</u>ntial)</p> <p>innocent, innocence, decent, decency, frequent, frequency, confident, confidence (confid<u>e</u>ntial)</p> <p>assistant, assistance, obedient, obedience, independent, independence</p>
Statutory requirements	Rules and guidance (non-statutory)	Example words (non-statutory)
Words ending in	The –able/–ably endings are far more	adorable/adorably

Statutory requirements	Rules and guidance (non-statutory)	Example words (non-statutory)
<p>–able and –ible</p> <p>Words ending in –ably and –ibly</p>	<p>common than the –ible/–ibly endings.</p> <p>As with –ant and –ance/–ancy, the –able ending is used if there is a related word ending in –ation.</p> <p>If the –able ending is added to a word ending in –ce or –ge, the e after the c or g must be kept as those letters would otherwise have their ‘hard’ sounds (as in <i>cap</i> and <i>gap</i>) before the a of the –able ending.</p> <p>The –able ending is usually but not always used if a complete root word can be heard before it, even if there is no related word ending in –ation. The first five examples opposite are obvious; in <i>reliable</i>, the complete word <i>rely</i> is heard, but the y changes to i in accordance with the rule.</p> <p>The –ible ending is common if a complete root word can’t be heard before it but it also sometimes occurs when a complete word <i>can</i> be heard (e.g. <i>sensible</i>).</p>	<p>(adoration),</p> <p>applicable/applicably (application),</p> <p>considerable/considerably (consideration),</p> <p>tolerable/tolerably (toleration)</p> <p>changeable, noticeable, forcible, legible</p> <p>dependable, comfortable, understandable, reasonable, enjoyable, reliable</p> <p>possible/possibly, horrible/horribly, terrible/terribly, visible/visibly, incredible/incredibly, sensible/sensibly</p>
<p>Adding suffixes beginning with vowel letters to words ending in –fer</p>	<p>The r is doubled if the –fer is still stressed when the ending is added.</p> <p>The r is not doubled if the –fer is no longer stressed.</p>	<p>referring, referred, referral, preferring, preferred, transferring, transferred</p> <p>reference, referee, preference, transference</p>
<p>Use of the hyphen</p>	<p>Hyphens can be used to join a prefix to a root word, especially if the prefix ends in a vowel letter and the root word also begins with one.</p>	<p>co-ordinate, re-enter, co-operate, co-own</p>

Statutory requirements	Rules and guidance (non-statutory)	Example words (non-statutory)
Words with the /i:/ sound spelt ei after c	<p>The ‘i before e except after c’ rule applies to words where the sound spelt by ei is /i:/.</p> <p>Exceptions: <i>protein, caffeine, seize</i> (and <i>either</i> and <i>neither</i> if pronounced with an initial /i:/ sound).</p>	deceive, conceive, receive, perceive, ceiling
Words containing the letter-string ough	<p>ough is one of the trickiest spellings in English – it can be used to spell a number of different sounds.</p>	ought, bought, thought, nought, brought, fought rough, tough, enough cough though, although, dough through thorough, borough plough, bough
Words with ‘silent’ letters (i.e. letters whose presence cannot be predicted from the pronunciation of the word)	<p>Some letters which are no longer sounded used to be sounded hundreds of years ago: e.g. in <i>knight</i>, there was a /k/ sound before the /n/, and the gh used to represent the sound that ‘ch’ now represents in the Scottish word <i>loch</i>.</p>	doubt, island, lamb, solemn, thistle, knight

Statutory requirements	Rules and guidance (non-statutory)	Example words (non-statutory)
<p>Homophones and other words that are often confused</p>	<p>In the pairs of words opposite, nouns end -ce and verbs end -se. <i>Advice</i> and <i>advise</i> provide a useful clue as the word <i>advise</i> (verb) is pronounced with a /z/ sound – which could not be spelt c.</p> <p><u>More examples:</u></p> <p>aisle: a gangway between seats (in a church, train, plane). isle: an island. aloud: out loud. allowed: permitted. affect: usually a verb (e.g. <i>The weather may affect our plans</i>). effect: usually a noun (e.g. <i>It may have an effect on our plans</i>). If a verb, it means 'bring about' (e.g. <i>He will effect changes in the running of the business</i>). altar: a table-like piece of furniture in a church. alter: to change. ascent: the act of ascending (going up). assent: to agree/agreement (verb and noun). bridal: to do with a bride at a wedding. bridle: reins etc. for controlling a horse. cereal: made from grain (e.g. breakfast cereal). serial: adjective from the noun <i>series</i> – a succession of things one after the other. compliment: to make nice remarks about someone (verb) or the remark that is made (noun). complement: related to the word <i>complete</i> – to make something complete or more complete (e.g. <i>her scarf complemented her outfit</i>).</p>	<p>advice/advise device/devise licence/license practice/practise prophecy/prophesy</p> <p>farther: further father: a male parent guessed: past tense of the verb <i>guess</i> guest: visitor heard: past tense of the verb <i>hear</i> herd: a group of animals led: past tense of the verb <i>lead</i> lead: present tense of that verb, or else the metal which is very heavy (<i>as heavy as lead</i>) morning: before noon mourning: grieving for someone who has died past: noun or adjective referring to a previous time (e.g. <i>In the past</i>) or preposition or adverb showing place (e.g. <i>he walked past me</i>) passed: past tense of the verb 'pass' (e.g. <i>I passed him in the road</i>) precede: go in front of or before proceed: go on</p>

Statutory requirements	Rules and guidance (non-statutory)	Example words (non-statutory)
<p>Homophones and other words that are often confused (continued)</p>	<p>descent: the act of descending (going down).</p> <p>dissent: to disagree/disagreement (verb and noun).</p> <p>desert: as a noun – a barren place (stress on first syllable); as a verb – to abandon (stress on second syllable)</p> <p>dessert: (stress on second syllable) a sweet course after the main course of a meal.</p> <p>draft: noun – a first attempt at writing something; verb – to make the first attempt; also, to draw in someone (e.g. <i>to draft in extra help</i>)</p> <p>draught: a current of air.</p>	<p>principal: adjective – most important (e.g. <i>principal ballerina</i>) noun – important person (e.g. <i>principal of a college</i>)</p> <p>principle: basic truth or belief</p> <p>profit: money that is made in selling things</p> <p>prophet: someone who foretells the future</p> <p>stationary: not moving</p> <p>stationery: paper, envelopes etc.</p> <p>steal: take something that does not belong to you</p> <p>steel: metal</p> <p>wary: cautious</p> <p>weary: tired</p> <p>who's: contraction of <i>who is</i> or <i>who has</i></p> <p>whose: belonging to someone (e.g. <i>Whose jacket is that?</i>)</p>

Word list – years 5 and 6

accommodate	criticise (critic + ise)	individual	relevant
accompany	curiosity	interfere	restaurant
according	definite	interrupt	rhyme
achieve	desperate	language	rhythm
aggressive	determined	leisure	sacrifice
amateur	develop	lightning	secretary
ancient	dictionary	marvellous	shoulder
apparent	disastrous	mischievous	signature
appreciate	embarrass	muscle	sincere(ly)
attached	environment	necessary	soldier
available	equip (–ped, –ment)	neighbour	stomach
average	especially	nuisance	sufficient
awkward	exaggerate	occupy	suggest
bargain	excellent	occur	symbol
bruise	existence	opportunity	system
category	explanation	parliament	temperature
cemetery	familiar	persuade	thorough
committee	foreign	physical	twelfth
communicate	forty	prejudice	variety
community	frequently	privilege	vegetable
competition	government	profession	vehicle
conscience*	guarantee	programme	yacht
conscious*	harass	pronunciation	
controversy	hindrance	queue	
convenience	identity	recognise	
correspond	immediate(ly)	recommend	

Notes and guidance (non-statutory)

Teachers should continue to emphasis to pupils the relationships between sounds and letters, even when the relationships are unusual. Once root words are learnt in this way, longer words can be spelt correctly if the rules and guidance for adding prefixes and suffixes are also known. Many of the words in the list above can be used for practice in adding suffixes.

Notes and guidance (non-statutory)

Understanding the history of words and relationships between them can also help with spelling.

Examples:

- *Conscience* and *conscious* are related to *science*: *conscience* is simply *science* with the prefix *con-* added. These words come from the Latin word *scio* meaning *I know*.
- The word *desperate*, meaning 'without hope', is often pronounced in English as *desp'rate*, but the *-sper-* part comes from the Latin *spero*, meaning 'I hope', in which the *e* was clearly sounded.
- *Familiar* is related to *family*, so the /ə/ sound in the first syllable of *familiar* is spelt as **a**.

English Appendix 2: Vocabulary, grammar and punctuation

The grammar of our first language is learnt naturally and implicitly through interactions with other speakers and from reading. Explicit knowledge of grammar is, however, very important, as it gives us more conscious control and choice in our language. Building this knowledge is best achieved through a focus on grammar within the teaching of reading, writing and speaking. Once pupils are familiar with a grammatical concept [for example 'modal verb'], they should be encouraged to apply and explore this concept in the grammar of their own speech and writing and to note where it is used by others. Young pupils, in particular, use more complex language in speech than in writing, and teachers should build on this, aiming for a smooth transition to sophisticated writing.

The table below focuses on Standard English and should be read in conjunction with the programmes of study as it sets out the statutory requirements. The table shows when concepts should be introduced first, not necessarily when they should be completely understood. It is very important, therefore, that the content in earlier years be revisited in subsequent years to consolidate knowledge and build on pupils' understanding. Teachers should also go beyond the content set out here if they feel it is appropriate.

The grammatical terms that pupils should learn are labelled as 'terminology for pupils'. They should learn to recognise and use the terminology through discussion and practice. All terms in **bold** should be understood with the meanings set out in the [Glossary](#).

Vocabulary, grammar and punctuation – Years 1 to 6

Year 5: Detail of content to be introduced (statutory requirement)	
Word	<p>Converting nouns or adjectives into verbs using suffixes [for example, <i>-ate</i>; <i>-ise</i>; <i>-ify</i>]</p> <p>Verb prefixes [for example, <i>dis-</i>, <i>de-</i>, <i>mis-</i>, <i>over-</i> and <i>re-</i>]</p>
Sentence	<p>Relative clauses beginning with <i>who</i>, <i>which</i>, <i>where</i>, <i>when</i>, <i>whose</i>, <i>that</i>, or an omitted relative pronoun</p> <p>Indicating degrees of possibility using adverbs [for example, <i>perhaps</i>, <i>surely</i>] or modal verbs [for example, <i>might</i>, <i>should</i>, <i>will</i>, <i>must</i>]</p>
Text	<p>Devices to build cohesion within a paragraph [for example, <i>then</i>, <i>after that</i>, <i>this</i>, <i>firstly</i>]</p> <p>Linking ideas across paragraphs using adverbials of time [for example, <i>later</i>], place [for example, <i>nearby</i>] and number [for example, <i>secondly</i>] or tense choices [for example, he <i>had</i> seen her before]</p>
Punctuation	<p>Brackets, dashes or commas to indicate parenthesis</p> <p>Use of commas to clarify meaning or avoid ambiguity</p>
Terminology for pupils	<p>modal verb, relative pronoun</p> <p>relative clause</p> <p>parenthesis, bracket, dash</p> <p>cohesion, ambiguity</p>

Glossary for the programmes of study for English (non-statutory)

The following glossary includes all the technical grammatical terms used in the programmes of study for English, as well as others that might be useful. It is intended as an aid for teachers, not as the body of knowledge that should be learnt by pupils. Apart from a few which are used only in schools (for example, *root word*), the terms below are used with the meanings defined here in most modern books on English grammar. It is recognised that there are different schools of thought on grammar, but the terms defined here clarify those being used in the programmes of study. For further details, teachers should consult the many books that are available.

Terms in definitions

As in any tightly structured area of knowledge, grammar, vocabulary and spelling involve a network of technical concepts that help to define each other. Consequently, the definition of one concept builds on other concepts that are equally technical. Concepts that are defined elsewhere in the glossary are hyperlinked. For some concepts, the technical definition may be slightly different from the meaning that some teachers may have learnt at school or may have been using with their own pupils; in these cases, the more familiar meaning is also discussed.

Term	Guidance	Example
active voice	An active verb has its usual pattern of subject and object (in contrast with the passive).	Active: <i>The school arranged a visit.</i> Passive: <i>A visit was arranged by the school.</i>
adjective	<p>The surest way to identify adjectives is by the ways they can be used:</p> <ul style="list-style-type: none"> before a noun, to make the noun's meaning more specific (i.e. to modify the noun), or after the verb <i>be</i>, as its complement. <p>Adjectives cannot be modified by other adjectives. This distinguishes them from nouns, which can be.</p> <p>Adjectives are sometimes called 'describing words' because they pick out single characteristics such as size or colour. This is often true, but it doesn't help to distinguish adjectives from other word classes, because verbs, nouns and adverbs can do the same thing.</p>	<p><i>The pupils did some really good work.</i> [adjective used before a noun, to modify it]</p> <p><i>Their work was good.</i> [adjective used after the verb <i>be</i>, as its complement]</p> <p>Not adjectives: <i>The lamp glowed.</i> [verb] <i>It was such a bright red!</i> [noun] <i>He spoke loudly.</i> [adverb] <i>It was a French grammar book.</i> [noun]</p>
adverb	The surest way to identify adverbs is by the ways they can be used: they can	<i>Usha soon started snoring loudly.</i> [adverbs modifying the verbs <i>started</i>

Term	Guidance	Example
	<p><u>modify</u> a <u>verb</u>, an <u>adjective</u>, another adverb or even a whole clause.</p> <p>Adverbs are sometimes said to describe manner or time. This is often true, but it doesn't help to distinguish adverbs from other word classes that can be used as <u>adverbials</u>, such as <u>preposition phrases</u>, <u>noun phrases</u> and <u>subordinate clauses</u>.</p>	<p>and <i>snoring</i>]</p> <p><i>That match was <u>really</u> exciting!</i> [adverb modifying the adjective <i>exciting</i>]</p> <p><i>We don't get to play games <u>very</u> often.</i> [adverb modifying the other adverb, <i>often</i>]</p> <p><i><u>Fortunately</u>, it didn't rain.</i> [adverb modifying the whole clause 'it didn't rain' by commenting on it]</p> <p>Not adverbs:</p> <ul style="list-style-type: none"> ▪ <i>Usha went <u>up the stairs</u>.</i> [preposition phrase used as adverbial] ▪ <i>She finished her work <u>this evening</u>.</i> [noun phrase used as adverbial] ▪ <i>She finished <u>when the teacher got cross</u>.</i> [subordinate clause used as adverbial]
adverbial	<p>An adverbial is a word or phrase that is used, like an adverb, to modify a verb or clause. Of course, <u>adverbs</u> can be used as adverbials, but many other types of words and phrases can be used this way, including <u>preposition phrases</u> and <u>subordinate clauses</u>.</p>	<p><i>The bus leaves <u>in five minutes</u>.</i> [preposition phrase as adverbial: modifies <i>leaves</i>]</p> <p><i>She promised to see him <u>last night</u>.</i> [noun phrase modifying either <i>promised</i> or <i>see</i>, according to the intended meaning]</p> <p><i>She worked <u>until she had finished</u>.</i> [subordinate clause as adverbial]</p>
antonym	<p>Two words are antonyms if their meanings are opposites.</p>	<p><i>hot – cold</i></p> <p><i>light – dark</i></p> <p><i>light – heavy</i></p>
apostrophe	<p>Apostrophes have two completely different uses:</p> <ul style="list-style-type: none"> ▪ showing the place of missing letters (e.g. <i>I'm</i> for <i>I am</i>) ▪ marking <u>possessives</u> (e.g. <i>Hannah's mother</i>). 	<p><i><u>I'm</u> going out and I <u>won't</u> be long.</i> [showing missing letters]</p> <p><i><u>Hannah's</u> mother went to town in <u>Justin's</u> car.</i> [marking possessives]</p>
article	<p>The articles <i>the</i> (definite) and <i>a</i> or <i>an</i> (indefinite) are the most common type of <u>determiner</u>.</p>	<p><i><u>The</u> dog found <u>a</u> bone in <u>an</u> old box.</i></p>

Term	Guidance	Example
auxiliary verb	<p>The auxiliary <u>verbs</u> are: <i>be</i>, <i>have</i>, <i>do</i> and the <u>modal verbs</u>. They can be used to make questions and negative statements. In addition:</p> <ul style="list-style-type: none"> ▪ <i>be</i> is used in the <u>progressive</u> and <u>passive</u> ▪ <i>have</i> is used in the <u>perfect</u> ▪ <i>do</i> is used to form questions and negative statements if no other auxiliary verb is present 	<p><i>They <u>are</u> winning the match.</i> [<i>be</i> used in the progressive]</p> <p><i><u>Have</u> you finished your picture?</i> [<i>have</i> used to make a question, and the perfect]</p> <p><i>No, I <u>don't</u> know him.</i> [<i>do</i> used to make a negative; no other auxiliary is present]</p> <p><i><u>Will</u> you come with me or not?</i> [modal verb <i>will</i> used to make a question about the other person's willingness]</p>
clause	<p>A clause is a special type of <u>phrase</u> whose <u>head</u> is a <u>verb</u>. Clauses can sometimes be complete sentences. Clauses may be <u>main</u> or <u>subordinate</u>.</p> <p>Traditionally, a clause had to have a <u>finite verb</u>, but most modern grammarians also recognise non-finite clauses.</p>	<p><i>It was raining.</i> [single-clause sentence]</p> <p><i>It was raining but we were indoors.</i> [two finite clauses]</p> <p><i>If you are coming to the party, please let us know.</i> [finite subordinate clause inside a finite main clause]</p> <p><i>Usha went upstairs <u>to play on her computer</u>.</i> [non-finite clause]</p>
cohesion	<p>A text has cohesion if it is clear how the meanings of its parts fit together. <u>Cohesive devices</u> can help to do this.</p> <p>In the example, there are repeated references to the same thing (shown by the different style pairings), and the logical relations, such as time and cause, between different parts are clear.</p>	<p>A visit has been arranged for Year 6, to the <u>Mountain Peaks Field Study Centre</u>, leaving school at 9.30am. This is an overnight visit. <u>The centre</u> has beautiful grounds and a <i>nature trail</i>. During the afternoon, the children will follow <i>the trail</i>.</p>
cohesive device	<p>Cohesive devices are words used to show how the different parts of a text fit together. In other words, they create <u>cohesion</u>.</p> <p>Some examples of cohesive devices are:</p> <ul style="list-style-type: none"> ▪ <u>determiners</u> and <u>pronouns</u>, which can refer back to earlier words ▪ <u>conjunctions</u> and <u>adverbs</u>, which can make relations between words clear ▪ <u>ellipsis</u> of expected words. 	<p><i>Julia's dad bought her a football. <u>The football</u> was expensive!</i> [determiner; refers us back to a particular football]</p> <p><i>Joe was given a bike for Christmas. <u>He</u> liked <u>it</u> very much.</i> [the pronouns refer back to Joe and the bike]</p> <p><i>We'll be going shopping <u>before</u> we go to the park.</i> [<u>conjunction</u>; makes a relationship of time clear]</p> <p><i>I'm afraid we're going to have to wait for the next train. <u>Meanwhile</u>, we could have a cup of tea.</i> [<u>adverb</u>; refers back to the time of waiting]</p>

Term	Guidance	Example
		<i>Where are you going? [] To school!</i> [ellipsis of the expected words <i>I'm going</i> ; links the answer back to the question]
complement	A verb's subject complement adds more information about its subject , and its object complement does the same for its object . Unlike the verb's object, its complement may be an adjective. The verb <i>be</i> normally has a complement.	<i>She is <u>our teacher</u>.</i> [adds more information about the subject, <i>she</i>] <i>They seem very <u>competent</u>.</i> [adds more information about the subject, <i>they</i>] <i>Learning makes me <u>happy</u>.</i> [adds more information about the object, <i>me</i>]
compound, compounding	A compound word contains at least two root words in its morphology ; e.g. <i>whiteboard</i> , <i>superman</i> . Compounding is very important in English.	<i>blackbird, blow-dry, bookshop, ice-cream, English teacher, inkjet, one-eyed, bone-dry, baby-sit, daydream, outgrow</i>
conjunction	A conjunction links two words or phrases together. There are two main types of conjunctions: <ul style="list-style-type: none"> ▪ co-ordinating conjunctions (e.g. <i>and</i>) link two words or phrases together as an equal pair ▪ subordinating conjunctions (e.g. <i>when</i>) introduce a subordinate clause. 	<i>James bought a bat <u>and</u> ball.</i> [links the words <i>bat</i> and <i>ball</i> as an equal pair] <i>Kylie is young <u>but</u> she can kick the ball hard.</i> [links two clauses as an equal pair] <i>Everyone watches <u>when</u> Kyle does back-flips.</i> [introduces a subordinate clause] <i>Joe can't practise kicking <u>because</u> he's injured.</i> [introduces a subordinate clause]
consonant	A sound which is produced when the speaker closes off or obstructs the flow of air through the vocal tract, usually using lips, tongue or teeth. Most of the letters of the alphabet represent consonants. Only the letters <i>a, e, i, o, u</i> and <i>y</i> can represent vowel sounds.	<i>/p/</i> [flow of air stopped by the lips, then released] <i>/t/</i> [flow of air stopped by the tongue touching the roof of the mouth, then released] <i>/f/</i> [flow of air obstructed by the bottom lip touching the top teeth] <i>/s/</i> [flow of air obstructed by the tip of the tongue touching the gum line]
continuous	See progressive	
co-ordinate, co-ordination	Words or phrases are co-ordinated if they are linked as an equal pair by a co-ordinating conjunction (i.e. <i>and, but, or</i>). In the examples on the right, the co-	<i>Susan <u>and</u> Amra met in a café.</i> [links the words <i>Susan</i> and <i>Amra</i> as an equal pair] <i>They talked <u>and</u> drank tea for an hour.</i> [links two clauses as an equal pair]

Term	Guidance	Example
	<p>ordinated elements are shown in bold, and the conjunction is underlined.</p> <p>The difference between co-ordination and subordination is that, in subordination, the two linked elements are not equal.</p>	<p>pair]</p> <p>Susan got a bus <u>but</u> Amra walked. [links two clauses as an equal pair]</p> <p>Not co-ordination: <i>They ate <u>before</u> they met.</i> [<i>before</i> introduces a subordinate clause]</p>
determiner	<p>A determiner specifies a noun as known or unknown, and it goes before any modifiers (e.g. adjectives or other nouns).</p> <p>Some examples of determiners are:</p> <ul style="list-style-type: none"> ▪ articles (<i>the, a or an</i>) ▪ demonstratives (e.g. <i>this, those</i>) ▪ possessives (e.g. <i>my, your</i>) ▪ quantifiers (e.g. <i>some, every</i>). 	<p><i>the home team</i> [article, specifies the team as known]</p> <p><i>a good team</i> [article, specifies the team as unknown]</p> <p><i>that pupil</i> [demonstrative, known]</p> <p><i>Julia's parents</i> [possessive, known]</p> <p><i>some big boys</i> [quantifier, unknown]</p> <p>Contrast: <i>home <u>the</u> team, big <u>some</u> boys</i> [both incorrect, because the determiner should come before other modifiers]</p>
digraph	<p>A type of grapheme where two letters represent one phoneme.</p> <p>Sometimes, these two letters are not next to one another; this is called a split digraph.</p>	<p>The digraph <u>ea</u> in <i>each</i> is pronounced /i:/. The digraph <u>sh</u> in <i>shed</i> is pronounced /ʃ/. The split digraph <u>i-e</u> in <i>line</i> is pronounced /aɪ/.</p>
ellipsis	<p>Ellipsis is the omission of a word or phrase which is expected and predictable.</p>	<p><i>Frankie waved to Ivana and <u>she</u> watched her drive away.</i></p> <p><i>She did it because she wanted to <u>do it</u>.</i></p>
etymology	<p>A word's etymology is its history: its origins in earlier forms of English or other languages, and how its form and meaning have changed. Many words in English have come from Greek, Latin or French.</p>	<p>The word <i>school</i> was borrowed from a Greek word <i>σχολή</i> (<i>skholé</i>) meaning 'leisure'.</p> <p>The word <i>verb</i> comes from Latin <i>verbum</i>, meaning 'word'.</p> <p>The word <i>mutton</i> comes from French <i>mouton</i>, meaning 'sheep'.</p>
finite verb	<p>Every sentence typically has at least one verb which is either past or present tense. Such verbs are called 'finite'. The imperative verb in a command is also finite.</p>	<p><i>Lizzie <u>does</u> the dishes every day.</i> [present tense]</p> <p><i>Even Hana <u>did</u> the dishes yesterday.</i> [past tense]</p>

Term	Guidance	Example
	Verbs that are not finite, such as participles or infinitives, cannot stand on their own: they are linked to another verb in the sentence.	<p><u>Do</u> the dishes, Naser! [imperative]</p> <p>Not finite verbs:</p> <ul style="list-style-type: none"> ▪ I have <u>done</u> them. [combined with the finite verb <i>have</i>] ▪ I will <u>do</u> them. [combined with the finite verb <i>will</i>] ▪ I want to <u>do</u> them! [combined with the finite verb <i>want</i>]
fronting, fronted	<p>A word or phrase that normally comes after the verb may be moved before the verb: when this happens, we say it has been ‘fronted’. For example, a fronted adverbial is an adverbial which has been moved before the verb.</p> <p>When writing fronted phrases, we often follow them with a comma.</p>	<p><u>Before we begin</u>, make sure you’ve got a pencil.</p> <p>[Without fronting: Make sure you’ve got a pencil before we begin.]</p> <p><u>The day after tomorrow</u>, I’m visiting my granddad.</p> <p>[Without fronting: I’m visiting my granddad the day after tomorrow.]</p>
future	<p>Reference to future time can be marked in a number of different ways in English. All these ways involve the use of a present-tense verb.</p> <p>See also tense.</p> <p>Unlike many other languages (such as French, Spanish or Italian), English has no distinct ‘future tense’ form of the verb comparable with its present and past tenses.</p>	<p>He <u>will leave</u> tomorrow. [present-tense <i>will</i> followed by infinitive <i>leave</i>]</p> <p>He <u>may leave</u> tomorrow. [present-tense <i>may</i> followed by infinitive <i>leave</i>]</p> <p>He <u>leaves</u> tomorrow. [present-tense <i>leaves</i>]</p> <p>He <u>is going to leave</u> tomorrow. [present tense <i>is</i> followed by <i>going to</i> plus the infinitive <i>leave</i>]</p>
GPC	See grapheme-phoneme correspondences .	
grapheme	A letter, or combination of letters, that corresponds to a single phoneme within a word.	<p>The grapheme <u>t</u> in the words <u>te</u>n, be<u>t</u> and a<u>te</u> corresponds to the phoneme /t/.</p> <p>The grapheme <u>ph</u> in the word do<u>lphin</u> corresponds to the phoneme /f/.</p>
grapheme-phoneme correspondences	<p>The links between letters, or combinations of letters (graphemes) and the speech sounds (phonemes) that they represent.</p> <p>In the English writing system, graphemes may correspond to different phonemes in different words.</p>	<p>The grapheme <u>s</u> corresponds to the phoneme /s/ in the word <u>se</u>e, but... ...it corresponds to the phoneme /z/ in the word ea<u>sy</u>.</p>

Term	Guidance	Example
head	See phrase .	
homonym	Two different words are homonyms if they both look exactly the same when written, and sound exactly the same when pronounced.	<i>Has he <u>left</u> yet? Yes – he went through the door on the <u>left</u>.</i> <i>The noise a dog makes is called a <u>bark</u>.</i> <i>Trees have <u>bark</u>.</i>
homophone	Two different words are homophones if they sound exactly the same when pronounced.	<i><u>hear</u>, <u>here</u></i> <i><u>some</u>, <u>sum</u></i>
infinitive	A verb's infinitive is the basic form used as the head-word in a dictionary (e.g. <i>walk</i> , <i>be</i>). Infinitives are often used: <ul style="list-style-type: none"> ▪ after <i>to</i> ▪ after modal verbs. 	<i>I want to <u>walk</u>.</i> <i>I will <u>be</u> quiet.</i>
inflection	When we add <i>-ed</i> to <i>walk</i> , or change <i>mouse</i> to <i>mice</i> , this change of morphology produces an inflection ('bending') of the basic word which has special grammar (e.g. past tense or plural). In contrast, adding <i>-er</i> to <i>walk</i> produces a completely different word, <i>walker</i> , which is part of the same word family . Inflection is sometimes thought of as merely a change of ending, but, in fact, some words change completely when inflected.	<i>dogs</i> is an inflection of <i>dog</i> . <i>went</i> is an inflection of <i>go</i> . <i>better</i> is an inflection of <i>good</i> .
intransitive verb	A verb which does not need an object in a sentence to complete its meaning is described as intransitive. See ' transitive verb '.	<i>We all <u>laughed</u>.</i> <i>We would like to stay longer, but we must <u>leave</u>.</i>
main clause	A sentence contains at least one clause which is not a subordinate clause ; such a clause is a main clause. A main clause may contain any number of subordinate clauses.	<i><u>It was raining but the sun was shining.</u></i> [two main clauses] <i><u>The man who wrote it told me that it was true.</u></i> [one main clause containing two subordinate clauses.] <i>She said, "It rained all day."</i> [one main clause containing another.]
modal verb	Modal verbs are used to change the meaning of other verbs . They can express meanings such as certainty,	<i>I <u>can</u> do this maths work by myself.</i> <i>This ride <u>may</u> be too scary for you!</i>

Term	Guidance	Example
	<p>ability, or obligation. The main modal verbs are <i>will, would, can, could, may, might, shall, should, must</i> and <i>ought</i>.</p> <p>A modal verb only has finite forms and has no suffixes (e.g. <i>I sing – he sings</i>, but not <i>I must – he musts</i>).</p>	<p>You <u>should</u> help your little brother.</p> <p>Is it going to rain? Yes, it <u>might</u>.</p> <p>Canning swim is important. [not possible because <i>can</i> must be finite; contrast: <i>Being able to swim is important</i>, where <i>being</i> is not a modal verb]</p>
modify, modifier	<p>One word or phrase modifies another by making its meaning more specific.</p> <p>Because the two words make a phrase, the ‘modifier’ is normally close to the modified word.</p>	<p>In the phrase <i>primary-school teacher</i>:</p> <ul style="list-style-type: none"> ▪ <i>teacher</i> is modified by <i>primary-school</i> (to mean a specific kind of teacher) ▪ <i>school</i> is modified by <i>primary</i> (to mean a specific kind of school).
morphology	<p>A word’s morphology is its internal make-up in terms of root words and suffixes or prefixes, as well as other kinds of change such as the change of <i>mouse</i> to <i>mice</i>.</p> <p>Morphology may be used to produce different inflections of the same word (e.g. <i>boy – boys</i>), or entirely new words (e.g. <i>boy – boyish</i>) belonging to the same word family.</p> <p>A word that contains two or more root words is a compound (e.g. <i>news+paper, ice+cream</i>).</p>	<p><i>dogs</i> has the morphological make-up: <i>dog</i> + <i>s</i>.</p> <p><i>unhelpfulness</i> has the morphological make-up:</p> <p style="padding-left: 40px;"><i>unhelpful</i> + <i>ness</i></p> <ul style="list-style-type: none"> ▪ where <i>unhelpful</i> = <i>un</i> + <i>helpful</i> ▪ and <i>helpful</i> = <i>help</i> + <i>ful</i>
noun	<p>The surest way to identify nouns is by the ways they can be used after determiners such as <i>the</i>: for example, most nouns will fit into the frame “The ___ matters/matter.”</p> <p>Nouns are sometimes called ‘naming words’ because they name people, places and ‘things’; this is often true, but it doesn’t help to distinguish nouns from other word classes. For example, prepositions can name places and verbs can name ‘things’ such as actions.</p> <p>Nouns may be classified as common (e.g. <i>boy, day</i>) or proper (e.g. <i>Ivan, Wednesday</i>), and also as countable (e.g. <i>thing, boy</i>) or non-countable (e.g. <i>stuff</i>,</p>	<p>Our <u>dog</u> bit the <u>burglar</u> on his <u>behind</u>!</p> <p>My big <u>brother</u> did an amazing <u>jump</u> on his <u>skateboard</u>.</p> <p><u>Actions</u> speak louder than <u>words</u>.</p> <p>Not nouns:</p> <ul style="list-style-type: none"> ▪ <i>He’s <u>behind</u> you!</i> [this names a place, but is a preposition, not a noun] ▪ <i>She can <u>jump</u> so high!</i> [this names an action, but is a verb, not a noun] <p>common, countable: <i>a <u>book</u>, <u>books</u>, two <u>chocolates</u>, one <u>day</u>, fewer <u>ideas</u></i></p> <p>common, non-countable: <i><u>money</u>, some</i></p>

Term	Guidance	Example
	money). These classes can be recognised by the determiners they combine with.	<u>chocolate</u> , less <u>imagination</u> proper, countable: <u>Marilyn</u> , <u>London</u> , <u>Wednesday</u>
noun phrase	A noun phrase is a <u>phrase</u> with a noun as its <u>head</u> , e.g. <i>some foxes</i> , <i>foxes with bushy tails</i> . Some grammarians recognise one-word phrases, so that <i>foxes are multiplying</i> would contain the noun <i>foxes</i> acting as the head of the noun phrase <i>foxes</i> .	<u>Adult foxes</u> can jump. [<i>adult</i> modifies <i>foxes</i> , so <i>adult</i> belongs to the noun phrase] <u>Almost all healthy adult foxes in this area</u> can jump. [all the other words help to modify <i>foxes</i> , so they all belong to the noun phrase]
object	An object is normally a <u>noun</u> , <u>pronoun</u> or <u>noun phrase</u> that comes straight after the <u>verb</u> , and shows what the verb is acting upon. Objects can be turned into the <u>subject</u> of a <u>passive</u> verb, and cannot be <u>adjectives</u> (contrast with <u>complements</u>).	Year 2 designed <u>puppets</u> . [noun acting as object] <i>I like <u>that</u></i> . [pronoun acting as object] Some people suggested <u>a pretty display</u> . [noun phrase acting as object] Contrast: <ul style="list-style-type: none"> ▪ <i>A display was suggested</i>. [object of active verb becomes the subject of the passive verb] ▪ <i>Year 2 designed pretty</i>. [incorrect, because adjectives cannot be objects]
participle	Verbs in English have two participles, called ‘present participle’ (e.g. <i>walking</i> , <i>taking</i>) and ‘past participle’ (e.g. <i>walked</i> , <i>taken</i>). Unfortunately, these terms can be confusing to learners, because: <ul style="list-style-type: none"> ▪ they don’t necessarily have anything to do with present or past time ▪ although past participles are used as <u>perfects</u> (e.g. <i>has eaten</i>) they are also used as <u>passives</u> (e.g. <i>was eaten</i>). 	<i>He is <u>walking</u> to school</i> . [present participle in a <u>progressive</u>] <i>He has <u>taken</u> the bus to school</i> . [past participle in a <u>perfect</u>] <i>The photo was <u>taken</u> in the rain</i> . [past participle in a <u>passive</u>]
passive	The sentence <i>It was eaten by our dog</i> is the passive of <i>Our dog ate it</i> . A passive is recognisable from: <ul style="list-style-type: none"> ▪ the past <u>participle</u> form <i>eaten</i> ▪ the normal <u>object</u> (<i>it</i>) turned into the <u>subject</u> 	<i>A visit was <u>arranged</u> by the school</i> . <i>Our cat got <u>run</u> over by a bus</i> . Active versions: <ul style="list-style-type: none"> ▪ <i>The school arranged a visit</i>. ▪ <i>A bus ran over our cat</i>.

Term	Guidance	Example
	<ul style="list-style-type: none"> ▪ the normal subject (<i>our dog</i>) turned into an optional preposition phrase with <i>by</i> as its head ▪ the verb <i>be(was)</i>, or some other verb such as <i>get</i>. <p>Contrast active.</p> <p>A verb is not ‘passive’ just because it has a passive meaning: it must be the passive version of an active verb.</p>	<p>Not passive:</p> <ul style="list-style-type: none"> ▪ <i>He received a warning.</i> [past tense, active <i>received</i>] ▪ <i>We had an accident.</i> [past tense, active <i>had</i>]
past tense	<p>Verbs in the past tense are commonly used to:</p> <ul style="list-style-type: none"> ▪ talk about the past ▪ talk about imagined situations ▪ make a request sound more polite. <p>Most verbs take a suffix <i>-ed</i>, to form their past tense, but many commonly-used verbs are irregular.</p> <p>See also tense.</p>	<p><i>Tom and Chris <u>showed</u> me their new TV.</i> [names an event in the past]</p> <p><i>Antonio <u>went</u> on holiday to Brazil.</i> [names an event in the past; irregular past of <i>go</i>]</p> <p><i>I wish I <u>had</u> a puppy.</i> [names an imagined situation, not a situation in the past]</p> <p><i>I <u>was</u> hoping you’d help tomorrow.</i> [makes an implied request sound more polite]</p>
perfect	<p>The perfect form of a verb generally calls attention to the consequences of a prior event; for example, <i>he has gone to lunch</i> implies that he is still away, in contrast with <i>he went to lunch</i>. ‘Had gone to lunch’ takes a past time point (i.e. when we arrived) as its reference point and is another way of establishing time relations in a text. The perfect tense is formed by:</p> <ul style="list-style-type: none"> ▪ turning the verb into its past participle inflection ▪ adding a form of the verb <i>have</i> before it. <p>It can also be combined with the progressive (e.g. <i>he has been going</i>).</p>	<p><i>She <u>has downloaded</u> some songs.</i> [present perfect; now she has some songs]</p> <p><i>I <u>had eaten</u> lunch when you came.</i> [past perfect; I wasn’t hungry when you came]</p>
phoneme	<p>A phoneme is the smallest unit of sound that signals a distinct, contrasting meaning. For example:</p> <ul style="list-style-type: none"> ▪ /t/ contrasts with /k/ to signal the difference between <i>tap</i> and <i>cap</i> 	<p>The word <i>cat</i> has three letters and three phonemes: /kæt/</p> <p>The word <i>catch</i> has five letters and three phonemes: /kætʃ/</p>

Term	Guidance	Example
	<ul style="list-style-type: none"> ▪ /t/ contrasts with // to signal the difference between <i>bought</i> and <i>ball</i>. <p>It is this contrast in meaning that tells us there are two distinct phonemes at work.</p> <p>There are around 44 phonemes in English; the exact number depends on regional accents. A single phoneme may be represented in writing by one, two, three or four letters constituting a single grapheme.</p>	<p>The word <i>caught</i> has six letters and three phonemes: /kɔ:t/</p>
phrase	<p>A phrase is a group of words that are grammatically connected so that they stay together, and that expand a single word, called the ‘head’. The phrase is a noun phrase if its head is a noun, a preposition phrase if its head is a preposition, and so on; but if the head is a verb, the phrase is called a clause. Phrases can be made up of other phrases.</p>	<p><i>She waved to <u>her</u> mother.</i> [a noun phrase, with the noun <i>mother</i> as its head]</p> <p><i>She waved <u>to her</u> mother.</i> [a preposition phrase, with the preposition <i>to</i> as its head]</p> <p><i><u>She waved to her mother.</u></i> [a clause, with the verb <i>waved</i> as its head]</p>
plural	<p>A plural noun normally has a suffix –s or –es and means ‘more than one’.</p> <p>There are a few nouns with different morphology in the plural (e.g. <i>mice</i>, <i>formulae</i>).</p>	<p><i><u>dogs</u></i> [more than one dog]; <i><u>boxes</u></i> [more than one box]</p> <p><i><u>mice</u></i> [more than one mouse]</p>
possessive	<p>A possessive can be:</p> <ul style="list-style-type: none"> ▪ a noun followed by an apostrophe, with or without s ▪ a possessive pronoun. <p>The relation expressed by a possessive goes well beyond ordinary ideas of ‘possession’. A possessive may act as a determiner.</p>	<p><i><u>Tariq’s</u> book</i> [Tariq has the book]</p> <p><i>The <u>boys’</u> arrival</i> [the boys arrive]</p> <p><i><u>His</u> obituary</i> [the obituary is about him]</p> <p><i>That essay is <u>mine</u>.</i> [I wrote the essay]</p>
prefix	<p>A prefix is added at the beginning of a word in order to turn it into another word.</p> <p>Contrast suffix.</p>	<p><i><u>overtake</u>, <u>disappear</u></i></p>
preposition	<p>A preposition links a following noun, pronoun or noun phrase to some other word in the sentence. Prepositions</p>	<p><i>Tom waved goodbye <u>to</u> Christy. She’ll be back <u>from</u> Australia <u>in</u> two weeks.</i></p>

Term	Guidance	Example
	<p>often describe locations or directions, but can describe other things, such as relations of time.</p> <p>Words like <i>before</i> or <i>since</i> can act either as prepositions or as conjunctions.</p>	<p><i>I haven't seen my dog <u>since</u> this morning.</i></p> <p>Contrast: <i>I'm going, <u>since</u> no-one wants me here!</i> [conjunction: links two clauses]</p>
preposition phrase	A preposition phrase has a preposition as its head followed by a noun, pronoun or noun phrase.	<p><i>He was <u>in bed</u>.</i></p> <p><i>I met them <u>after the party</u>.</i></p>
present tense	<p>Verbs in the present tense are commonly used to:</p> <ul style="list-style-type: none"> talk about the present talk about the future. <p>They may take a suffix –s (depending on the subject).</p> <p>See also tense.</p>	<p><i>Jamal <u>goes</u> to the pool every day.</i> [describes a habit that exists now]</p> <p><i>He <u>can</u> swim.</i> [describes a state that is true now]</p> <p><i>The bus <u>arrives</u> at three.</i> [scheduled now]</p> <p><i>My friends <u>are</u> coming to play.</i> [describes a plan in progress now]</p>
progressive	The progressive (also known as the 'continuous') form of a verb generally describes events in progress. It is formed by combining the verb's present participle (e.g. <i>singing</i>) with a form of the verb <i>be</i> (e.g. <i>he was singing</i>). The progressive can also be combined with the perfect (e.g. <i>he has been singing</i>).	<p><i>Michael <u>is singing</u> in the store room.</i> [present progressive]</p> <p><i>Amanda <u>was making</u> a patchwork quilt.</i> [past progressive]</p> <p><i>Usha <u>had been practising</u> for an hour when I called.</i> [past perfect progressive]</p>
pronoun	<p>Pronouns are normally used like nouns, except that:</p> <ul style="list-style-type: none"> they are grammatically more specialised it is harder to modify them <p>In the examples, each sentence is written twice: once with nouns, and once with pronouns (underlined). Where the same thing is being talked about, the words are shown in bold.</p>	<p>Amanda waved to Michael.</p> <p><u>She</u> waved to <u>him</u>.</p> <p>John's mother is over there. <u>His</u> mother is over there.</p> <p>The visit will be an overnight visit. <u>This</u> will be an overnight visit.</p> <p><u>Simon</u> is the person: Simon broke it. <u>He</u> is the one who broke it.</p>
punctuation	Punctuation includes any conventional features of writing other than spelling and general layout: the standard punctuation marks . , ; : ? ! - - () “ ” ‘ ’ , and also word-spaces, capital letters, apostrophes, paragraph breaks and	<p><i><u>"I'm going out, Usha, and I won't be long."</u> Mum said.</i></p>

Term	Guidance	Example
	bullet points. One important role of punctuation is to indicate <u>sentence</u> boundaries.	
Received Pronunciation	Received Pronunciation (often abbreviated to RP) is an accent which is used only by a small minority of English speakers in England. It is not associated with any one region. Because of its regional neutrality, it is the accent which is generally shown in dictionaries in the UK (but not, of course, in the USA). RP has no special status in the national curriculum.	
register	Classroom lessons, football commentaries and novels use different registers of the same language, recognised by differences of vocabulary and grammar. Registers are ‘varieties’ of a language which are each tied to a range of uses, in contrast with dialects, which are tied to groups of users.	<p><i>I regret to inform you that Mr Joseph Smith has passed away.</i> [formal letter]</p> <p><i>Have you heard that Joe has died?</i> [casual speech]</p> <p><i>Joe falls down and dies, centre stage.</i> [stage direction]</p>
relative clause	<p>A relative clause is a special type of <u>subordinate clause</u> that modifies a <u>noun</u>. It often does this by using a relative <u>pronoun</u> such as <i>who</i> or <i>that</i> to refer back to that noun, though the relative pronoun <i>that</i> is often omitted.</p> <p>A relative clause may also be attached to a <u>clause</u>. In that case, the pronoun refers back to the whole clause, rather than referring back to a noun.</p> <p>In the examples, the relative clauses are underlined, and both the pronouns and the words they refer back to are in bold.</p>	<p><i>That’s the boy who lives near school.</i> [who refers back to boy]</p> <p><i>The prize that I won was a book.</i> [that refers back to prize]</p> <p><i>The prize I won was a book.</i> [the pronoun that is omitted]</p> <p><i>Tom broke the game, which annoyed Ali.</i> [which refers back to the whole clause]</p>
root word	<u>Morphology</u> breaks words down into root words, which can stand alone, and <u>suffixes</u> or <u>prefixes</u> which can’t. For example, <i>help</i> is the root word for other words in its <u>word family</u> such as <i>helpful</i> and <i>helpless</i> , and also for its <u>inflections</u> such as <i>helping</i> . <u>Compound</u> words (e.g. <i>help-desk</i>) contain two or	<p><i>played</i> [the root word is <i>play</i>]</p> <p><i>unfair</i> [the root word is <i>fair</i>]</p> <p><i>football</i> [the root words are <i>foot</i> and <i>ball</i>]</p>

Term	Guidance	Example
	<p>more root words. When looking in a dictionary, we sometimes have to look for the root word (or words) of the word we are interested in.</p>	
schwa	<p>The name of a vowel sound that is found only in unstressed positions in English. It is the most common vowel sound in English.</p> <p>It is written as /ə/ in the International Phonetic Alphabet. In the English writing system, it can be written in many different ways.</p>	<p>/əldŋ/ [<u>a</u>long]</p> <p>/bʌtə/ [<u>u</u>tter]</p> <p>/dɒktə/ [<u>o</u>ctor]</p>
sentence	<p>A sentence is a group of words which are grammatically connected to each other but not to any words outside the sentence.</p> <p>The form of a sentence's main clause shows whether it is being used as a statement, a question, a command or an exclamation.</p> <p>A sentence may consist of a single clause or it may contain several clauses held together by subordination or co-ordination. Classifying sentences as 'simple', 'complex' or 'compound' can be confusing, because a 'simple' sentence may be complicated, and a 'complex' one may be straightforward. The terms 'single-clause sentence' and 'multi-clause sentence' may be more helpful.</p>	<p><u>John went to his friend's house. He stayed there till tea-time.</u></p> <p><i>John went to his friend's house, he stayed there till tea-time.</i> [This is a 'comma splice', a common error in which a comma is used where either a full stop or a semi-colon is needed to indicate the lack of any grammatical connection between the two clauses.]</p> <p><i>You are my friend.</i> [statement]</p> <p><i>Are you my friend?</i> [question]</p> <p><i>Be my friend!</i> [command]</p> <p><i>What a good friend you are!</i> [exclamation]</p> <p><i>Ali went home on his bike to his goldfish and his current library book about pets.</i> [single-clause sentence]</p> <p><i>She went shopping but took back everything she had bought because she didn't like any of it.</i> [multi-clause sentence]</p>
split digraph	See digraph .	
Standard English	Standard English can be recognised by the use of a very small range of forms such as <i>those books</i> , <i>I did it</i> and <i>I wasn't doing anything</i> (rather than their non-Standard equivalents); it is not limited to any particular accent. It is the variety of English which is used, with only minor	<p><i>I did it because they were not willing to undertake any more work on those houses.</i> [formal Standard English]</p> <p><i>I did it cos they wouldn't do any more work on those houses.</i> [casual Standard English]</p> <p><i>I done it cos they wouldn't do no more</i></p>

Term	Guidance	Example
	<p>variation, as a major world language. Some people use Standard English all the time, in all situations from the most casual to the most formal, so it covers most registers. The aim of the national curriculum is that everyone should be able to use Standard English as needed in writing and in relatively formal speaking.</p>	<p><i>work on them houses.</i> [casual non-Standard English]</p>
stress	<p>A syllable is stressed if it is pronounced more forcefully than the syllables next to it. The other syllables are unstressed.</p>	<p><i><u>about</u></i> <i><u>visit</u></i></p>
subject	<p>The subject of a verb is normally the noun, noun phrase or pronoun that names the ‘do-er’ or ‘be-er’. The subject’s normal position is:</p> <ul style="list-style-type: none"> ▪ just before the verb in a statement ▪ just after the auxiliary verb, in a question. <p>Unlike the verb’s object and complement, the subject can determine the form of the verb (e.g. <i>I am, you are</i>).</p>	<p><i><u>Rula’s mother</u> went out.</i> <i><u>That</u> is uncertain.</i> <i><u>The children</u> will study the animals.</i> <i>Will <u>the children</u> study the animals?</i></p>
subjunctive	<p>In some languages, the inflections of a verb include a large range of special forms which are used typically in subordinate clauses, and are called ‘subjunctives’. English has very few such forms and those it has tend to be used in rather formal styles.</p>	<p><i>The school requires that all pupils <u>be</u> honest.</i> <i>The school rules demand that pupils not <u>enter</u> the gym at lunchtime.</i> <i>If Zoë <u>were</u> the class president, things would be much better.</i></p>
subordinate, subordination	<p>A subordinate word or phrase tells us more about the meaning of the word it is subordinate to. Subordination can be thought of as an unequal relationship between a subordinate word and a main word. For example:</p> <ul style="list-style-type: none"> ▪ an adjective is subordinate to the noun it modifies ▪ subjects and objects are subordinate to their verbs. <p>Subordination is much more common than the equal relationship of co-ordination.</p>	<p><i><u>big</u> dogs [big is subordinate to dogs]</i> <i><u>Big dogs</u> need <u>long</u> walks. [big dogs and long walks are subordinate to need]</i> <i>We can watch TV <u>when we’ve finished</u>.</i> [when we’ve finished is subordinate to watch]</p>

Term	Guidance	Example
	See also subordinate clause .	
subordinate clause	<p>A clause which is subordinate to some other part of the same sentence is a subordinate clause; for example, in <i>The apple that I ate was sour</i>, the clause <i>that I ate</i> is subordinate to <i>apple</i> (which it modifies). Subordinate clauses contrast with co-ordinate clauses as in <i>It was sour but looked very tasty</i>. (Contrast: main clause)</p> <p>However, clauses that are directly quoted as direct speech are not subordinate clauses.</p>	<p><i>That's the street <u>where Ben lives</u>.</i> [relative clause; modifies <i>street</i>]</p> <p><i>He watched her <u>as she disappeared</u>.</i> [adverbial; modifies <i>watched</i>]</p> <p><i><u>What you said</u> was very nice.</i> [acts as subject of <i>was</i>]</p> <p><i>She noticed <u>an hour had passed</u>.</i> [acts as object of <i>noticed</i>]</p> <p>Not subordinate: <i>He shouted, "<u>Look out!</u>"</i></p>
suffix	<p>A suffix is an 'ending', used at the end of one word to turn it into another word. Unlike root words, suffixes cannot stand on their own as a complete word.</p> <p>Contrast prefix.</p>	<p><i>call – <u>called</u></i></p> <p><i>teach – <u>teacher</u></i> [turns a verb into a noun]</p> <p><i>terror – <u>terrorise</u></i> [turns a noun into a verb]</p> <p><i>green – <u>greenish</u></i> [leaves word class unchanged]</p>
syllable	<p>A syllable sounds like a beat in a word. Syllables consist of at least one vowel, and possibly one or more consonants.</p>	<p><i>Cat</i> has one syllable.</p> <p><i>Fairy</i> has two syllables.</p> <p><i>Hippopotamus</i> has five syllables.</p>
synonym	<p>Two words are synonyms if they have the same meaning, or similar meanings. Contrast antonym.</p>	<p><i>talk – <u>speak</u></i></p> <p><i>old – <u>elderly</u></i></p>
tense	<p>In English, tense is the choice between present and past verbs, which is special because it is signalled by inflections and normally indicates differences of time. In contrast, languages like French, Spanish and Italian, have three or more distinct tense forms, including a future tense. (See also: future.)</p> <p>The simple tenses (present and past) may be combined in English with the perfect and progressive.</p>	<p><i>He <u>studies</u>.</i> [present tense – present time]</p> <p><i>He <u>studied</u> yesterday.</i> [past tense – past time]</p> <p><i>He <u>studies</u> tomorrow, or else!</i> [present tense – future time]</p> <p><i>He <u>may study</u> tomorrow.</i> [present tense + infinitive – future time]</p> <p><i>He <u>plans to study</u> tomorrow.</i> [present tense + infinitive – future time]</p> <p><i>If he <u>studied</u> tomorrow, he'd see the difference!</i> [past tense – imagined]</p>

Term	Guidance	Example
		future] Contrast three distinct tense forms in Spanish: <ul style="list-style-type: none"> ▪ <i>Estudia.</i> [present tense] ▪ <i>Estudió.</i> [past tense] ▪ <i>Estudiará.</i> [future tense]
transitive verb	A transitive verb takes at least one object in a sentence to complete its meaning, in contrast to an intransitive verb , which does not.	<i>He <u>loves</u> Juliet.</i> <i>She <u>understands</u> English grammar.</i>
trigraph	A type of grapheme where three letters represent one phoneme .	<i>High, <u>pure</u>, <u>patch</u>, <u>hedge</u></i>
unstressed	See stressed .	
verb	The surest way to identify verbs is by the ways they can be used: they can usually have a tense , either present or past (see also future). Verbs are sometimes called ‘doing words’ because many verbs name an action that someone does; while this can be a way of recognising verbs, it doesn’t distinguish verbs from nouns (which can also name actions). Moreover many verbs name states or feelings rather than actions. Verbs can be classified in various ways: for example, as auxiliary , or modal ; as transitive or intransitive ; and as states or events.	<i>He <u>lives</u> in Birmingham.</i> [present tense] <i>The teacher <u>wrote</u> a song for the class.</i> [past tense] <i>He <u>likes</u> chocolate.</i> [present tense; not an action] <i>He <u>knew</u> my father.</i> [past tense; not an action] Not verbs: <ul style="list-style-type: none"> ▪ <i>The <u>walk</u> to Halina’s house will take an hour.</i> [noun] ▪ <i>All that <u>surfing</u> makes Morwenna so sleepy!</i> [noun]
vowel	A vowel is a speech sound which is produced without any closure or obstruction of the vocal tract. Vowels can form syllables by themselves, or they may combine with consonants . In the English writing system, the letters <i>a, e, i, o, u</i> and <i>y</i> can represent vowels.	
word	A word is a unit of grammar: it can be selected and moved around relatively independently, but cannot easily be split. In punctuation, words are normally separated by word spaces. Sometimes, a sequence that appears grammatically to be two words is collapsed into a single written word, indicated with a hyphen or apostrophe	<i><u>headteacher</u> or <u>head teacher</u></i> [can be written with or without a space] <i><u>I’m</u> going out.</i> <i><u>9.30 am</u></i>

Term	Guidance	Example
	(e.g. <i>well-built, he's</i>).	
word class	Every <u>word</u> belongs to a word class which summarises the ways in which it can be used in grammar. The major word classes for English are: <u>noun</u> , <u>verb</u> , <u>adjective</u> , <u>adverb</u> , <u>preposition</u> , <u>determiner</u> , <u>pronoun</u> , <u>conjunction</u> . Word classes are sometimes called 'parts of speech'.	
word family	The <u>words</u> in a word family are normally related to each other by a combination of <u>morphology</u> , grammar and meaning.	<i>teach – teacher</i> <i>extend – extent – extensive</i> <i>grammar – grammatical – grammarian</i>

Mathematics

Purpose of study

Mathematics is a creative and highly inter-connected discipline that has been developed over centuries, providing the solution to some of history's most intriguing problems. It is essential to everyday life, critical to science, technology and engineering, and necessary for financial literacy and most forms of employment. A high-quality mathematics education therefore provides a foundation for understanding the world, the ability to reason mathematically, an appreciation of the beauty and power of mathematics, and a sense of enjoyment and curiosity about the subject.

Aims

The national curriculum for mathematics aims to ensure that all pupils:

- become **fluent** in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately.
- **reason mathematically** by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language
- can **solve problems** by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions.

Mathematics is an interconnected subject in which pupils need to be able to move fluently between representations of mathematical ideas. The programmes of study are, by necessity, organised into apparently distinct domains, but pupils should make rich connections across mathematical ideas to develop fluency, mathematical reasoning and competence in solving increasingly sophisticated problems. They should also apply their mathematical knowledge to science and other subjects.

The expectation is that the majority of pupils will move through the programmes of study at broadly the same pace. However, decisions about when to progress should always be based on the security of pupils' understanding and their readiness to progress to the next stage. Pupils who grasp concepts rapidly should be challenged through being offered rich and sophisticated problems before any acceleration through new content. Those who are not sufficiently fluent with earlier material should consolidate their understanding, including through additional practice, before moving on.

Information and communication technology (ICT)

Calculators should not be used as a substitute for good written and mental arithmetic. They should therefore only be introduced near the end of key stage 2 to support pupils' conceptual understanding and exploration of more complex number problems, if written and mental arithmetic are secure. In both primary and secondary schools, teachers should use their judgement about when ICT tools should be used.

Spoken language

The national curriculum for mathematics reflects the importance of spoken language in pupils' development across the whole curriculum – cognitively, socially and linguistically. The quality and variety of language that pupils hear and speak are key factors in developing their mathematical vocabulary and presenting a mathematical justification, argument or proof. They must be assisted in making their thinking clear to themselves as well as others and teachers should ensure that pupils build secure foundations by using discussion to probe and remedy their misconceptions.

School curriculum

The programmes of study for mathematics are set out year-by-year for key stages 1 and 2. Schools are, however, only required to teach the relevant programme of study by the end of the key stage. Within each key stage, schools therefore have the flexibility to introduce content earlier or later than set out in the programme of study. In addition, schools can introduce key stage content during an earlier key stage, if appropriate. All schools are also required to set out their school curriculum for mathematics on a year-by-year basis and make this information available online.

Attainment targets

By the end of each key stage, pupils are expected to know, apply and understand the matters, skills and processes specified in the relevant programme of study.

Schools are not required by law to teach the example content in [square brackets] or the content indicated as being 'non-statutory'.

Upper key stage 2 – years 5 and 6

The principal focus of mathematics teaching in upper key stage 2 is to ensure that pupils extend their understanding of the number system and place value to include larger integers. This should develop the connections that pupils make between multiplication and division with fractions, decimals, percentages and ratio.

At this stage, pupils should develop their ability to solve a wider range of problems, including increasingly complex properties of numbers and arithmetic, and problems demanding efficient written and mental methods of calculation. With this foundation in arithmetic, pupils are introduced to the language of algebra as a means for solving a variety of problems. Teaching in geometry and measures should consolidate and extend knowledge developed in number. Teaching should also ensure that pupils classify shapes with increasingly complex geometric properties and that they learn the vocabulary they need to describe them.

By the end of year 6, pupils should be fluent in written methods for all four operations, including long multiplication and division, and in working with fractions, decimals and percentages.

Pupils should read, spell and pronounce mathematical vocabulary correctly.

Year 5 programme of study

Number – number and place value

Statutory requirements

Pupils should be taught to:

- read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit
- count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000
- interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero
- round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000
- solve number problems and practical problems that involve all of the above
- read Roman numerals to 1000 (M) and recognise years written in Roman numerals.

Notes and guidance (non-statutory)

Pupils identify the place value in large whole numbers.

They continue to use number in context, including measurement. Pupils extend and apply their understanding of the number system to the decimal numbers and fractions that they have met so far.

They should recognise and describe linear number sequences, including those involving fractions and decimals, and find the term-to-term rule.

They should recognise and describe linear number sequences (for example, 3, $3\frac{1}{2}$, 4, $4\frac{1}{2}$...), including those involving fractions and decimals, and find the term-to-term rule in words (for example, add $\frac{1}{2}$).

Number – addition and subtraction

Statutory requirements

Pupils should be taught to:

- add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)
- add and subtract numbers mentally with increasingly large numbers
- use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy
- solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.

Notes and guidance (non-statutory)

Pupils practise using the formal written methods of columnar addition and subtraction with increasingly large numbers to aid fluency (see [Mathematics Appendix I](#)).

They practise mental calculations with increasingly large numbers to aid fluency (for example, $12\,462 - 2300 = 10\,162$).

Number – multiplication and division

Statutory requirements

Pupils should be taught to:

- identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers
- know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers
- establish whether a number up to 100 is prime and recall prime numbers up to 19
- multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers
- multiply and divide numbers mentally drawing upon known facts
- divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context
- multiply and divide whole numbers and those involving decimals by 10, 100 and 1000

Statutory requirements

- recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)
- solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes
- solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign
- solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.

Notes and guidance (non-statutory)

Pupils practise and extend their use of the formal written methods of short multiplication and short division (see [Mathematics Appendix 1](#)). They apply all the multiplication tables and related division facts frequently, commit them to memory and use them confidently to make larger calculations.

They use and understand the terms factor, multiple and prime, square and cube numbers.

Pupils interpret non-integer answers to division by expressing results in different ways according to the context, including with remainders, as fractions, as decimals or by rounding (for example, $98 \div 4 = \frac{98}{4} = 24 \text{ r } 2 = 24\frac{1}{2} = 24.5 \approx 25$).

Pupils use multiplication and division as inverses to support the introduction of ratio in year 6, for example, by multiplying and dividing by powers of 10 in scale drawings or by multiplying and dividing by powers of a 1000 in converting between units such as kilometres and metres.

Distributivity can be expressed as $a(b + c) = ab + ac$.

They understand the terms factor, multiple and prime, square and cube numbers and use them to construct equivalence statements (for example, $4 \times 35 = 2 \times 2 \times 35$; $3 \times 270 = 3 \times 3 \times 9 \times 10 = 9^2 \times 10$).

Pupils use and explain the equals sign to indicate equivalence, including in missing number problems (for example, $13 + 24 = 12 + 25$; $33 = 5 \times \square$).

Number – fractions (including decimals and percentages)

Statutory requirements

Pupils should be taught to:

- compare and order fractions whose denominators are all multiples of the same number
- identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths
- recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$]
- add and subtract fractions with the same denominator and denominators that are multiples of the same number
- multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams
- read and write decimal numbers as fractions [for example, $0.71 = \frac{71}{100}$]
- recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
- round decimals with two decimal places to the nearest whole number and to one decimal place
- read, write, order and compare numbers with up to three decimal places
- solve problems involving number up to three decimal places
- recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal
- solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25.

Notes and guidance (non-statutory)

Pupils should be taught throughout that percentages, decimals and fractions are different ways of expressing proportions.

They extend their knowledge of fractions to thousandths and connect to decimals and measures.

Notes and guidance (non-statutory)

Pupils connect equivalent fractions > 1 that simplify to integers with division and other fractions > 1 to division with remainders, using the number line and other models, and hence move from these to improper and mixed fractions.

Pupils connect multiplication by a fraction to using fractions as operators (fractions of), and to division, building on work from previous years. This relates to scaling by simple fractions, including fractions > 1 .

Pupils practise adding and subtracting fractions to become fluent through a variety of increasingly complex problems. They extend their understanding of adding and subtracting fractions to calculations that exceed 1 as a mixed number.

Pupils continue to practise counting forwards and backwards in simple fractions.

Pupils continue to develop their understanding of fractions as numbers, measures and operators by finding fractions of numbers and quantities.

Pupils extend counting from year 4, using decimals and fractions including bridging zero, for example on a number line.

Pupils say, read and write decimal fractions and related tenths, hundredths and thousandths accurately and are confident in checking the reasonableness of their answers to problems.

They mentally add and subtract tenths, and one-digit whole numbers and tenths.

They practise adding and subtracting decimals, including a mix of whole numbers and decimals, decimals with different numbers of decimal places, and complements of 1 (for example, $0.83 + 0.17 = 1$).

Pupils should go beyond the measurement and money models of decimals, for example, by solving puzzles involving decimals.

Pupils should make connections between percentages, fractions and decimals (for example, 100% represents a whole quantity and 1% is $\frac{1}{100}$, 50% is $\frac{50}{100}$, 25% is $\frac{25}{100}$) and relate this to finding 'fractions of'.

Statutory requirements

Pupils should be taught to:

- convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)
- understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints
- measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres
- calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm^2) and square metres (m^2) and estimate the area of irregular shapes
- estimate volume [for example, using 1 cm^3 blocks to build cuboids (including cubes)] and capacity [for example, using water]
- solve problems involving converting between units of time
- use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.

Notes and guidance (non-statutory)

Pupils use their knowledge of place value and multiplication and division to convert between standard units.

Pupils calculate the perimeter of rectangles and related composite shapes, including using the relations of perimeter or area to find unknown lengths. Missing measures questions such as these can be expressed algebraically, for example $4 + 2b = 20$ for a rectangle of sides 2 cm and b cm and perimeter of 20cm.

Pupils calculate the area from scale drawings using given measurements.

Pupils use all four operations in problems involving time and money, including conversions (for example, days to weeks, expressing the answer as weeks and days).

Geometry – properties of shapes

Statutory requirements

Pupils should be taught to:

- identify 3-D shapes, including cubes and other cuboids, from 2-D representations
- know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles
- draw given angles, and measure them in degrees ($^{\circ}$)
- identify:
 - angles at a point and one whole turn (total 360°)
 - angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°)
 - other multiples of 90°
- use the properties of rectangles to deduce related facts and find missing lengths and angles
- distinguish between regular and irregular polygons based on reasoning about equal sides and angles.

Notes and guidance (non-statutory)

Pupils become accurate in drawing lines with a ruler to the nearest millimetre, and measuring with a protractor. They use conventional markings for parallel lines and right angles.

Pupils use the term diagonal and make conjectures about the angles formed between sides, and between diagonals and parallel sides, and other properties of quadrilaterals, for example using dynamic geometry ICT tools.

Pupils use angle sum facts and other properties to make deductions about missing angles and relate these to missing number problems.

Geometry – position and direction

Statutory requirements

Pupils should be taught to:

- identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.

Notes and guidance (non-statutory)

Pupils recognise and use reflection and translation in a variety of diagrams, including continuing

Notes and guidance (non-statutory)

to use a 2-D grid and coordinates in the first quadrant. Reflection should be in lines that are parallel to the axes.

Statistics

Statutory requirements

Pupils should be taught to:

- solve comparison, sum and difference problems using information presented in a line graph
- complete, read and interpret information in tables, including timetables.

Notes and guidance (non-statutory)

Pupils connect their work on coordinates and scales to their interpretation of time graphs.

They begin to decide which representations of data are most appropriate and why.

Science

Purpose of study

A high-quality science education provides the foundations for understanding the world through the specific disciplines of biology, chemistry and physics. Science has changed our lives and is vital to the world's future prosperity, and all pupils should be taught essential aspects of the knowledge, methods, processes and uses of science. Through building up a body of key foundational knowledge and concepts, pupils should be encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. They should be encouraged to understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes.

Aims

The national curriculum for science aims to ensure that all pupils:

- develop **scientific knowledge and conceptual understanding** through the specific disciplines of biology, chemistry and physics
- develop understanding of the **nature, processes and methods of science** through different types of science enquiries that help them to answer scientific questions about the world around them
- are equipped with the scientific knowledge required to understand the **uses and implications** of science, today and for the future.

Scientific knowledge and conceptual understanding

The programmes of study describe a sequence of knowledge and concepts. While it is important that pupils make progress, it is also vitally important that they develop secure understanding of each key block of knowledge and concepts in order to progress to the next stage. Insecure, superficial understanding will not allow genuine progression: pupils may struggle at key points of transition (such as between primary and secondary school), build up serious misconceptions, and/or have significant difficulties in understanding higher-order content.

Pupils should be able to describe associated processes and key characteristics in common language, but they should also be familiar with, and use, technical terminology accurately and precisely. They should build up an extended specialist vocabulary. They should also apply their mathematical knowledge to their understanding of science, including collecting, presenting and analysing data. The social and economic implications of science are important but, generally, they are taught most appropriately within the wider school curriculum: teachers will wish to use different contexts to maximise their pupils' engagement with and motivation to study science.

The nature, processes and methods of science

'Working scientifically' specifies the understanding of the nature, processes and methods of science for each year group. It should not be taught as a separate strand. The notes and guidance give examples of how 'working scientifically' might be embedded within the content of biology, chemistry and physics, focusing on the key features of scientific enquiry, so that pupils learn to use a variety of approaches to answer relevant scientific questions. These types of scientific enquiry should include: observing over time; pattern seeking; identifying, classifying and grouping; comparative and fair testing (controlled investigations); and researching using secondary sources. Pupils should seek answers to questions through collecting, analysing and presenting data. 'Working scientifically' will be developed further at key stages 3 and 4, once pupils have built up sufficient understanding of science to engage meaningfully in more sophisticated discussion of experimental design and control.

Spoken language

The national curriculum for science reflects the importance of spoken language in pupils' development across the whole curriculum – cognitively, socially and linguistically. The quality and variety of language that pupils hear and speak are key factors in developing their scientific vocabulary and articulating scientific concepts clearly and precisely. They must be assisted in making their thinking clear, both to themselves and others, and teachers should ensure that pupils build secure foundations by using discussion to probe and remedy their misconceptions.

School curriculum

The programmes of study for science are set out year-by-year for key stages 1 and 2. Schools are, however, only required to teach the relevant programme of study by the end of the key stage. Within each key stage, schools therefore have the flexibility to introduce content earlier or later than set out in the programme of study. In addition, schools can introduce key stage content during an earlier key stage if appropriate. All schools are also required to set out their school curriculum for science on a year-by-year basis and make this information available online.

Attainment targets

By the end of each key stage, pupils are expected to know, apply and understand the matters, skills and processes specified in the relevant programme of study.

Schools are not required by law to teach the content indicated as being 'non-statutory'.

Upper key stage 2 – years 5 and 6

The principal focus of science teaching in upper key stage 2 is to enable pupils to develop a deeper understanding of a wide range of scientific ideas. They should do this through exploring and talking about their ideas; asking their own questions about scientific phenomena; and analysing functions, relationships and interactions more systematically. At upper key stage 2, they should encounter more abstract ideas and begin to recognise how these ideas help them to understand and predict how the world operates. They should also begin to recognise that scientific ideas change and develop over time. They should select the most appropriate ways to answer science questions using different types of scientific enquiry, including observing changes over different periods of time, noticing patterns, grouping and classifying things, carrying out comparative and fair tests and finding things out using a wide range of secondary sources of information. Pupils should draw conclusions based on their data and observations, use evidence to justify their ideas, and use their scientific knowledge and understanding to explain their findings.

‘Working and thinking scientifically’ is described separately at the beginning of the programme of study, but must **always** be taught through and clearly related to substantive science content in the programme of study. Throughout the notes and guidance, examples show how scientific methods and skills might be linked to specific elements of the content.

Pupils should read, spell and pronounce scientific vocabulary correctly.

Upper key stage 2 programme of study

Working scientifically

Statutory requirements

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 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.

Notes and guidance (non-statutory)

Pupils in years 5 and 6 should use their science experiences to: explore ideas and raise different kinds of questions; select and plan the most appropriate type of scientific enquiry to use to answer scientific questions; recognise when and how to set up comparative and fair tests and explain which variables need to be controlled and why. They should use and develop keys and other information records to identify, classify and describe living things and materials, and identify patterns that might be found in the natural environment. They should make their own decisions about what observations to make, what measurements to use and how long to make them for, and whether to repeat them; choose the most appropriate equipment to make measurements and explain how to use it accurately. They should decide how to record data from a choice of familiar approaches; look for different causal relationships in their data and identify evidence that refutes or supports their ideas. They should use their results to identify when further tests and observations might be needed; recognise which secondary sources will be most useful to research their ideas and begin to separate opinion from fact. They should use relevant scientific language and illustrations to discuss, communicate and justify their scientific ideas and should talk about how scientific ideas have developed over time.

These opportunities for working scientifically should be provided across years 5 and 6 so that the expectations in the programme of study can be met by the end of year 6. Pupils are not

Notes and guidance (non-statutory)

expected to cover each aspect for every area of study.

Year 5 programme of study

Living things and their habitats

Statutory requirements

Pupils should be taught to:

- describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird
- describe the life process of reproduction in some plants and animals.

Notes and guidance (non-statutory)

Pupils should study and raise questions about their local environment throughout the year. They should observe life-cycle changes in a variety of living things, for example, plants in the vegetable garden or flower border, and animals in the local environment. They should find out about the work of naturalists and animal behaviourists, for example, David Attenborough and Jane Goodall.

Pupils should find out about different types of reproduction, including sexual and asexual reproduction in plants, and sexual reproduction in animals.

Pupils might work scientifically by: observing and comparing the life cycles of plants and animals in their local environment with other plants and animals around the world (in the rainforest, in the oceans, in desert areas and in prehistoric times), asking pertinent questions and suggesting reasons for similarities and differences. They might try to grow new plants from different parts of the parent plant, for example, seeds, stem and root cuttings, tubers, bulbs. They might observe changes in an animal over a period of time (for example, by hatching and rearing chicks), comparing how different animals reproduce and grow.

Animals, including humans

Statutory requirements

Pupils should be taught to:

- describe the changes as humans develop to old age.

Notes and guidance (non-statutory)

Pupils should draw a timeline to indicate stages in the growth and development of humans. They should learn about the changes experienced in puberty.

Notes and guidance (non-statutory)

Pupils could work scientifically by researching the gestation periods of other animals and comparing them with humans; by finding out and recording the length and mass of a baby as it grows.

Properties and changes of materials

Statutory requirements

Pupils should be taught to:

- compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets
- know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution
- use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating
- give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic
- demonstrate that dissolving, mixing and changes of state are reversible changes
- explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda.

Notes and guidance (non-statutory)

Pupils should build a more systematic understanding of materials by exploring and comparing the properties of a broad range of materials, including relating these to what they learnt about magnetism in year 3 and about electricity in year 4. They should explore reversible changes, including, evaporating, filtering, sieving, melting and dissolving, recognising that melting and dissolving are different processes. Pupils should explore changes that are difficult to reverse, for example, burning, rusting and other reactions, for example, vinegar with bicarbonate of soda. They should find out about how chemists create new materials, for example, Spencer Silver, who invented the glue for sticky notes or Ruth Benerito, who invented wrinkle-free cotton.

Notes and guidance (non-statutory)

Note: Pupils are not required to make quantitative measurements about conductivity and insulation at this stage. It is sufficient for them to observe that some conductors will produce a brighter bulb in a circuit than others and that some materials will feel hotter than others when a heat source is placed against them. Safety guidelines should be followed when burning materials.

Pupils might work scientifically by: carrying out tests to answer questions, for example, 'Which materials would be the most effective for making a warm jacket, for wrapping ice cream to stop it melting, or for making blackout curtains?' They might compare materials in order to make a switch in a circuit. They could observe and compare the changes that take place, for example, when burning different materials or baking bread or cakes. They might research and discuss how chemical changes have an impact on our lives, for example, cooking, and discuss the creative use of new materials such as polymers, super-sticky and super-thin materials.

Earth and space

Statutory requirements

Pupils should be taught to:

- describe the movement of the Earth, and other planets, relative to the Sun in the solar system
- describe the movement of the Moon relative to the Earth
- describe the Sun, Earth and Moon as approximately spherical bodies
- use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.

Notes and guidance (non-statutory)

Pupils should be introduced to a model of the Sun and Earth that enables them to explain day and night. Pupils should learn that the Sun is a star at the centre of our solar system and that it has eight planets: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune (Pluto was reclassified as a 'dwarf planet' in 2006). They should understand that a moon is a celestial body that orbits a planet (Earth has one moon; Jupiter has four large moons and numerous smaller ones).

Note: Pupils should be warned that it is not safe to look directly at the Sun, even when wearing dark glasses.

Notes and guidance (non-statutory)

Pupils should find out about the way that ideas about the solar system have developed, understanding how the geocentric model of the solar system gave way to the heliocentric model by considering the work of scientists such as Ptolemy, Alhazen and Copernicus.

Pupils might work scientifically by: comparing the time of day at different places on the Earth through internet links and direct communication; creating simple models of the solar system; constructing simple shadow clocks and sundials, calibrated to show midday and the start and end of the school day; finding out why some people think that structures such as Stonehenge might have been used as astronomical clocks.

Forces

Statutory requirements

Pupils should be taught to:

- explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object
- identify the effects of air resistance, water resistance and friction, that act between moving surfaces
- recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.

Notes and guidance (non-statutory)

Pupils should explore falling objects and raise questions about the effects of air resistance. They should explore the effects of air resistance by observing how different objects such as parachutes and sycamore seeds fall. They should experience forces that make things begin to move, get faster or slow down. Pupils should explore the effects of friction on movement and find out how it slows or stops moving objects, for example, by observing the effects of a brake on a bicycle wheel. Pupils should explore the effects of levers, pulleys and simple machines on movement. Pupils might find out how scientists, for example, Galileo Galilei and Isaac Newton helped to develop the theory of gravitation.

Pupils might work scientifically by: exploring falling paper cones or cup-cake cases, and designing and making a variety of parachutes and carrying out fair tests to determine which designs are the most effective. They might explore resistance in water by making and testing boats of different shapes. They might design and make products that use levers, pulleys, gears and/or springs and explore their effects.

Art and design

Purpose of study

Art, craft and design embody some of the highest forms of human creativity. A high-quality art and design education should engage, inspire and challenge pupils, equipping them with the knowledge and skills to experiment, invent and create their own works of art, craft and design. As pupils progress, they should be able to think critically and develop a more rigorous understanding of art and design. They should also know how art and design both reflect and shape our history, and contribute to the culture, creativity and wealth of our nation.

Aims

The national curriculum for art and design aims to ensure that all pupils:

- produce creative work, exploring their ideas and recording their experiences
- become proficient in drawing, painting, sculpture and other art, craft and design techniques
- evaluate and analyse creative works using the language of art, craft and design
- know about great artists, craft makers and designers, and understand the historical and cultural development of their art forms.

Attainment targets

By the end of each key stage, pupils are expected to know, apply and understand the matters, skills and processes specified in the relevant programme of study.

Schools are not required by law to teach the example content in [square brackets].

Subject content

Key stage 2

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]
- about great artists, architects and designers in history.

Computing

Purpose of study

A high-quality computing education equips pupils to use computational thinking and creativity to understand and change the world. Computing has deep links with mathematics, science, and design and technology, and provides insights into both natural and artificial systems. The core of computing is computer science, in which pupils are taught the principles of information and computation, how digital systems work, and how to put this knowledge to use through programming. Building on this knowledge and understanding, pupils are equipped to use information technology to create programs, systems and a range of content. Computing also ensures that pupils become digitally literate – able to use, and express themselves and develop their ideas through, information and communication technology – at a level suitable for the future workplace and as active participants in a digital world.

Aims

The national curriculum for computing aims to ensure that all pupils:

- can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation
- can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems
- can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems
- are responsible, competent, confident and creative users of information and communication technology.

Attainment targets

By the end of each key stage, pupils are expected to know, apply and understand the matters, skills and processes specified in the relevant programme of study.

Schools are not required by law to teach the example content in [square brackets].

Subject content

Key stage 2

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 internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration
- use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
- select, use and combine a variety of software (including internet 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 presenting data and information
- use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

Design and technology

Purpose of study

Design and technology is an inspiring, rigorous and practical subject. Using creativity and imagination, pupils design and make products that solve real and relevant problems within a variety of contexts, considering their own and others' needs, wants and values. They acquire a broad range of subject knowledge and draw on disciplines such as mathematics, science, engineering, computing and art. Pupils learn how to take risks, becoming resourceful, innovative, enterprising and capable citizens. Through the evaluation of past and present design and technology, they develop a critical understanding of its impact on daily life and the wider world. High-quality design and technology education makes an essential contribution to the creativity, culture, wealth and well-being of the nation.

Aims

The national curriculum for design and technology aims to ensure that all pupils:

- develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world
- build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users
- critique, evaluate and test their ideas and products and the work of others
- understand and apply the principles of nutrition and learn how to cook.

Attainment targets

By the end of each key stage, pupils are expected to know, apply and understand the matters, skills and processes specified in the relevant programme of study.

Schools are not required by law to teach the example content in [square brackets].

Subject content

Key stage 2

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 communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design

Make

- select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately
- select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities

Evaluate

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

Technical knowledge

- apply their understanding of how to strengthen, stiffen and reinforce more complex structures
- understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]
- understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]
- apply their understanding of computing to program, monitor and control their products.

Cooking and nutrition

As part of their work with food, pupils should be taught how to cook and apply the principles of nutrition and healthy eating. Instilling a love of cooking in pupils will also open a door to one of the great expressions of human creativity. Learning how to cook is a crucial life skill that enables pupils to feed themselves and others affordably and well, now and in later life.

Pupils should be taught to:

Key stage 2

- understand and apply the principles of a healthy and varied diet
- prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques
- understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.

Geography

Purpose of study

A high-quality geography education should inspire in pupils a curiosity and fascination about the world and its people that will remain with them for the rest of their lives. Teaching should equip pupils with knowledge about diverse places, people, resources and natural and human environments, together with a deep understanding of the Earth's key physical and human processes. As pupils progress, their growing knowledge about the world should help them to deepen their understanding of the interaction between physical and human processes, and of the formation and use of landscapes and environments. Geographical knowledge, understanding and skills provide the frameworks and approaches that explain how the Earth's features at different scales are shaped, interconnected and change over time.

Aims

The national curriculum for geography aims to ensure that all pupils:

- develop contextual knowledge of the location of globally significant places – both terrestrial and marine – including their defining physical and human characteristics and how these provide a geographical context for understanding the actions of processes
- understand the processes that give rise to key physical and human geographical features of the world, how these are interdependent and how they bring about spatial variation and change over time
- are competent in the geographical skills needed to:
 - collect, analyse and communicate with a range of data gathered through experiences of fieldwork that deepen their understanding of geographical processes
 - interpret a range of sources of geographical information, including maps, diagrams, globes, aerial photographs and Geographical Information Systems (GIS)
 - communicate geographical information in a variety of ways, including through maps, numerical and quantitative skills and writing at length.

Attainment targets

By the end of each key stage, pupils are expected to know, apply and understand the matters, skills and processes specified in the relevant programme of study.

Schools are not required by law to teach the example content in [square brackets].

Subject content

Key stage 2

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 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 (including hills, mountains, coasts and rivers), and land-use patterns; and understand how some of these aspects have changed over time
- 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)

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

Human and physical geography

- describe and understand key aspects of:
 - physical geography, including: climate zones, biomes and vegetation belts, rivers, mountains, volcanoes and earthquakes, and the water cycle
 - 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

Geographical skills and fieldwork

- use maps, atlases, globes and digital/computer mapping to locate countries and describe features studied
- 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

- 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.

History

Purpose of study

A high-quality history education will help pupils gain a coherent knowledge and understanding of Britain's past and that of the wider world. It should inspire pupils' curiosity to know more about the past. Teaching should equip pupils to ask perceptive questions, think critically, weigh evidence, sift arguments, and develop perspective and judgement. History helps pupils to understand the complexity of people's lives, the process of change, the diversity of societies and relationships between different groups, as well as their own identity and the challenges of their time.

Aims

The national curriculum for history aims to ensure that all pupils:

- know and understand the history of these islands as a coherent, chronological narrative, from the earliest times to the present day: how people's lives have shaped this nation and how Britain has influenced and been influenced by the wider world
- know and understand significant aspects of the history of the wider world: the nature of ancient civilisations; the expansion and dissolution of empires; characteristic features of past non-European societies; achievements and follies of mankind
- gain and deploy a historically grounded understanding of abstract terms such as 'empire', 'civilisation', 'parliament' and 'peasantry'
- understand historical concepts such as continuity and change, cause and consequence, similarity, difference and significance, and use them to make connections, draw contrasts, analyse trends, frame historically-valid questions and create their own structured accounts, including written narratives and analyses
- understand the methods of historical enquiry, including how evidence is used rigorously to make historical claims, and discern how and why contrasting arguments and interpretations of the past have been constructed
- gain historical perspective by placing their growing knowledge into different contexts, understanding the connections between local, regional, national and international history; between cultural, economic, military, political, religious and social history; and between short- and long-term timescales.

Attainment targets

By the end of each key stage, pupils are expected to know, apply and understand the matters, skills and processes specified in the relevant programme of study.

Schools are not required by law to teach the example content in [square brackets] or the content indicated as being ‘non-statutory’.

Subject content

Key stage 2

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 through teaching the British, local and 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

Examples (non-statutory)

This could include:

- late Neolithic hunter-gatherers and early farmers, for example, Skara Brae
- Bronze Age religion, technology and travel, for example, Stonehenge
- Iron Age hill forts: tribal kingdoms, farming, art and culture

- the Roman Empire and its impact on Britain

Examples (non-statutory)

This could include:

- Julius Caesar’s attempted invasion in 55-54 BC
- the Roman Empire by AD 42 and the power of its army
- successful invasion by Claudius and conquest, including Hadrian’s Wall
- British resistance, for example, Boudica
- ‘Romanisation’ of Britain: sites such as Caerwent and the impact of technology, culture and beliefs, including early Christianity

- Britain's settlement by Anglo-Saxons and Scots

Examples (non-statutory)

This could include:

- Roman withdrawal from Britain in c. AD 410 and the fall of the western Roman Empire
- Scots invasions from Ireland to north Britain (now Scotland)
- Anglo-Saxon invasions, settlements and kingdoms: place names and village life
- Anglo-Saxon art and culture
- Christian conversion – Canterbury, Iona and Lindisfarne

- the Viking and Anglo-Saxon struggle for the Kingdom of England to the time of Edward the Confessor

Examples (non-statutory)

This could include:

- Viking raids and invasion
- resistance by Alfred the Great and Athelstan, first king of England
- further Viking invasions and Danegeld
- Anglo-Saxon laws and justice
- Edward the Confessor and his death in 1066

- a local history study

Examples (non-statutory)

- a depth study linked to one of the British areas of study listed above
- a study over time tracing how several aspects of national history are reflected in the locality (this can go beyond 1066)
- a study of an aspect of history or a site dating from a period beyond 1066 that is significant in the locality.

- a study of an aspect or theme in British history that extends pupils' chronological knowledge beyond 1066

Examples (non-statutory)

- the changing power of monarchs using case studies such as John, Anne and Victoria
- changes in an aspect of social history, such as crime and punishment from the Anglo-Saxons to the present or leisure and entertainment in the 20th Century
- the legacy of Greek or Roman culture (art, architecture or literature) on later periods in

Examples (non-statutory)

British history, including the present day

- a significant turning point in British history, for example, the first railways or the Battle of Britain
-
- 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
 - Ancient Greece – a study of Greek life and achievements and their influence on the western world
 - a non-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.

Languages

Purpose of study

Learning a foreign language is a liberation from insularity and provides an opening to other cultures. A high-quality languages education should foster pupils' curiosity and deepen their understanding of the world. The teaching should enable pupils to express their ideas and thoughts in another language and to understand and respond to its speakers, both in speech and in writing. It should also provide opportunities for them to communicate for practical purposes, learn new ways of thinking and read great literature in the original language. Language teaching should provide the foundation for learning further languages, equipping pupils to study and work in other countries.

Aims

The national curriculum for languages aims to ensure that all pupils:

- understand and respond to spoken and written language from a variety of authentic sources
- speak with increasing confidence, fluency and spontaneity, finding ways of communicating what they want to say, including through discussion and asking questions, and continually improving the accuracy of their pronunciation and intonation
- can write at varying length, for different purposes and audiences, using the variety of grammatical structures that they have learnt
- discover and develop an appreciation of a range of writing in the language studied.

Attainment targets

By the end of each key stage, pupils are expected to know, apply and understand the matters, skills and processes specified in the relevant programme of study.

Schools are not required by law to teach the example content in [square brackets].

Subject content

Key stage 2: Foreign language

Teaching may be of any modern or ancient foreign language and should focus on enabling pupils to make substantial progress in one language. The teaching should provide an appropriate balance of spoken and written language and should lay the foundations for further foreign language teaching at key stage 3. It should enable pupils to understand and communicate ideas, facts and feelings in speech and writing, focused on familiar and routine matters, using their knowledge of phonology, grammatical structures and vocabulary.

The focus of study in modern languages will be on practical communication. If an ancient language is chosen the focus will be to provide a linguistic foundation for reading comprehension and an appreciation of classical civilisation. Pupils studying ancient languages may take part in simple oral exchanges, while discussion of what they read will be conducted in English. A linguistic foundation in ancient languages may support the study of modern languages at key stage 3.

Pupils should be taught to:

- listen attentively to spoken language and show understanding 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 conversations; ask and answer questions; express opinions and respond to those of others; seek clarification and help*
- speak in sentences, using familiar vocabulary, phrases and basic language structures
- develop accurate pronunciation and intonation so that others understand when they are reading aloud or using familiar words and phrases*
- present ideas and information orally to a range of audiences*
- read carefully and show understanding of words, phrases and simple writing
- appreciate stories, songs, poems and rhymes in the language
- broaden their vocabulary and develop their ability to understand new words that are introduced into familiar written material, including through using a dictionary
- write phrases from memory, and adapt these to create new sentences, to express ideas clearly
- describe people, places, things and actions orally* and in writing
- understand 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.

The starred (*) content above will not be applicable to ancient languages.

Music

Purpose of study

Music is a universal language that embodies one of the highest forms of creativity. A high-quality music education should engage and inspire pupils to develop a love of music and their talent as musicians, and so increase their self-confidence, creativity and sense of achievement. As pupils progress, they should develop a critical engagement with music, allowing them to compose, and to listen with discrimination to the best in the musical canon.

Aims

The national curriculum for music aims to ensure that all pupils:

- perform, listen to, review and evaluate music across a range of historical periods, genres, styles and traditions, including the works of the great composers and musicians
- learn to sing and to use their voices, to create and compose music on their own and with others, have the opportunity to learn a musical instrument, use technology appropriately and have the opportunity to progress to the next level of musical excellence
- understand and explore how music is created, produced and communicated, including through the inter-related dimensions: pitch, duration, dynamics, tempo, timbre, texture, structure and appropriate musical notations.

Attainment targets

By the end of each key stage, pupils are expected to know, apply and understand the matters, skills and processes specified in the relevant programme of study.

Subject content

Key stage 2

Pupils should be taught to sing and play musically with increasing confidence and control. They should develop an understanding of musical composition, organising and manipulating ideas within musical structures and reproducing sounds from aural memory.

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 high-quality live and recorded music drawn from different traditions and from great composers and musicians
- develop an understanding of the history of music.

Physical education

Purpose of study

A high-quality physical education curriculum inspires all pupils to succeed and excel in competitive sport and other physically-demanding activities. It should provide opportunities for pupils to become physically confident in a way which supports their health and fitness. Opportunities to compete in sport and other activities build character and help to embed values such as fairness and respect.

Aims

The national curriculum for physical education aims to ensure that all pupils:

- develop competence to excel in a broad range of physical activities
- are physically active for sustained periods of time
- engage in competitive sports and activities
- lead healthy, active lives.

Attainment targets

By the end of each key stage, pupils are expected to know, apply and understand the matters, skills and processes specified in the relevant programme of study.

Schools are not required by law to teach the example content in [square brackets].

Subject content

Key stage 2

Pupils should continue to apply and develop a broader range of skills, learning how to use them in different ways and to link them to make actions and sequences of movement. They should enjoy communicating, collaborating and competing with each other. They should develop an understanding of how to improve in different physical activities and sports and learn how to evaluate and recognise their own success.

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]
- perform dances using a range of movement patterns
- take part in outdoor and adventurous activity challenges both individually and within a team
- compare their performances with previous ones and demonstrate improvement to achieve their personal best.

Swimming and water safety

All schools must provide swimming instruction either in key stage 1 or key stage 2.

In particular, pupils should be taught to:

- swim competently, confidently and proficiently over a distance of at least 25 metres
- use a range of strokes effectively [for example, front crawl, backstroke and breaststroke]
- perform safe self-rescue in different water-based situations.

