



# Year 5

# Reading,

# Writing,

# Mathematics



**CHASE BRIDGE PRIMARY SCHOOL**

# Year 5 Reading, Writing, Mathematics

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## 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.

### 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.

### 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.

### 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.

### 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 that meaning is clear.

### 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.

# 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 <b>–ce</b>, the /ʃ/ sound is usually spelt as <b>c</b> – 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><b>Exception:</b> <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><b>–cial</b> is common after a vowel letter and <b>–tial</b> after a consonant letter, but there are some exceptions.</p> <p><b>Exceptions:</b> <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 <b>–ant</b> and <b>–ance/–ancy</b> if there is a related word with a /æ/ or /eɪ/ sound in the right position; <b>–ation</b> endings are often a clue.</p> <p>Use <b>–ent</b> and <b>–ence/–ency</b> after soft <b>c</b> (/s/ sound), soft <b>g</b> (/dʒ/ sound) and <b>qu</b>, 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 <b>–able/–ably</b> 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 <b>–ible/–ibly</b> endings.</p> <p>As with <b>–ant</b> and <b>–ance/–ancy</b>, the <b>–able</b> ending is used if there is a related word ending in <b>–ation</b>.</p> <p>If the <b>–able</b> ending is added to a word ending in <b>–ce</b> or <b>–ge</b>, the <b>e</b> after the <b>c</b> or <b>g</b> must be kept as those letters would otherwise have their ‘hard’ sounds (as in <i>cap</i> and <i>gap</i>) before the <b>a</b> of the <b>–able</b> ending.</p> <p>The <b>–able</b> 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 <b>–ation</b>. The first five examples opposite are obvious; in <i>reliable</i>, the complete word <i>rely</i> is heard, but the <b>y</b> changes to <b>i</b> in accordance with the rule.</p> <p>The <b>–ible</b> 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 <b>r</b> is doubled if the <b>–fer</b> is still stressed when the ending is added.</p> <p>The <b>r</b> is not doubled if the <b>–fer</b> 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 <b>ei</b> is /i:/.</p> <p><b>Exceptions:</b> <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><b>ough</b> 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 <b>gh</b> 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 <b>-ce</b> and verbs end <b>-se</b>. <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 <b>c</b>.</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	

## Vocabulary, grammar and punctuation – Years 1 to 6

Year 5: Detail of content to be introduced (statutory requirement)	
<b>Word</b>	<p>Converting <b>nouns</b> or <b>adjectives</b> into <b>verbs</b> using <b>suffixes</b> [for example, –ate; –ise; –ify]</p> <p><b>Verb prefixes</b> [for example, dis–, de–, mis–, over– and re–]</p>
<b>Sentence</b>	<p><b>Relative clauses</b> 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 <b>adverbs</b> [for example, <i>perhaps</i>, <i>surely</i>] or <b>modal verbs</b> [for example, <i>might</i>, <i>should</i>, <i>will</i>, <i>must</i>]</p>
<b>Text</b>	<p>Devices to build <b>cohesion</b> 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 <b>adverbials</b> 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>
<b>Punctuation</b>	<p>Brackets, dashes or commas to indicate parenthesis</p> <p>Use of commas to clarify meaning or avoid ambiguity</p>
<b>Terminology for pupils</b>	<p>modal verb, relative pronoun</p> <p>relative clause</p> <p>parenthesis, bracket, dash</p> <p>cohesion, ambiguity</p>

# 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.

## 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.

## 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.

### 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.

### 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 ( $\text{cm}^2$ ) and square metres ( $\text{m}^2$ ) and estimate the area of irregular shapes
- estimate volume [for example, using  $1 \text{ cm}^3$  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.

## 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  $360^{\circ}$ )
  - angles at a point on a straight line and  $\frac{1}{2}$  a turn (total  $180^{\circ}$ )
  - other multiples of  $90^{\circ}$
- 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.

## 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.

## 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.







