

# Year 5 Core Subject Essentials

## Spellings:

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

## 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. 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, 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, assist<u>a</u>nce, obedient, obedie<u>n</u>ce, independent, independ<u>e</u>nce</p>



Statutory requirements	Rules and guidance (non-statutory)	Example words (non-statutory)
<p>Words ending in –able and –ible</p> <p>Words ending in –ably and –ibly</p>	<p>The –able/–ably endings are far more common than the –ible/–ibly endings. 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>adorable/adorably (adoration),  applicable/applicably (application),  considerable/considerably (consideration),  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>

English – Appendix 1: Spelling

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><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>	<p>ought, bought, thought, nought, brought, fought</p> <p>rough, tough, enough</p> <p>cough</p> <p>though, although, dough</p> <p>through</p> <p>thorough, borough</p> <p>plough, bough</p>
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)
Homophones and other words that are often confused	<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 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/prophecy</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 (as <i>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)
Homophones and other words that are often confused (continued)	<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>

# Maths

- multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000

1x table	2x table	3x table	4x table	5x table	6x table
1 × 1 = 1	1 × 2 = 2	1 × 3 = 3	1 × 4 = 4	1 × 5 = 5	1 × 6 = 6
2 × 1 = 2	2 × 2 = 4	2 × 3 = 6	2 × 4 = 8	2 × 5 = 10	2 × 6 = 12
3 × 1 = 3	3 × 2 = 6	3 × 3 = 9	3 × 4 = 12	3 × 5 = 15	3 × 6 = 18
4 × 1 = 4	4 × 2 = 8	4 × 3 = 12	4 × 4 = 16	4 × 5 = 20	4 × 6 = 24
5 × 1 = 5	5 × 2 = 10	5 × 3 = 15	5 × 4 = 20	5 × 5 = 25	5 × 6 = 30
6 × 1 = 6	6 × 2 = 12	6 × 3 = 18	6 × 4 = 24	6 × 5 = 30	6 × 6 = 36
7 × 1 = 7	7 × 2 = 14	7 × 3 = 21	7 × 4 = 28	7 × 5 = 35	7 × 6 = 42
8 × 1 = 8	8 × 2 = 16	8 × 3 = 24	8 × 4 = 32	8 × 5 = 40	8 × 6 = 48
9 × 1 = 9	9 × 2 = 18	9 × 3 = 27	9 × 4 = 36	9 × 5 = 45	9 × 6 = 54
10 × 1 = 10	10 × 2 = 20	10 × 3 = 30	10 × 4 = 40	10 × 5 = 50	10 × 6 = 60
11 × 1 = 11	11 × 2 = 22	11 × 3 = 33	11 × 4 = 44	11 × 5 = 55	11 × 6 = 66
12 × 1 = 12	12 × 2 = 24	12 × 3 = 36	12 × 4 = 48	12 × 5 = 60	12 × 6 = 72

7x table	8x table	9x table	10x table	11x table	12x table
1 × 7 = 7	1 × 8 = 8	1 × 9 = 9	1 × 10 = 10	1 × 11 = 11	1 × 12 = 12
2 × 7 = 14	2 × 8 = 16	2 × 9 = 18	2 × 10 = 20	2 × 11 = 22	2 × 12 = 24
3 × 7 = 21	3 × 8 = 24	3 × 9 = 27	3 × 10 = 30	3 × 11 = 33	3 × 12 = 36
4 × 7 = 28	4 × 8 = 32	4 × 9 = 36	4 × 10 = 40	4 × 11 = 44	4 × 12 = 48
5 × 7 = 35	5 × 8 = 40	5 × 9 = 45	5 × 10 = 50	5 × 11 = 55	5 × 12 = 60
6 × 7 = 42	6 × 8 = 48	6 × 9 = 54	6 × 10 = 60	6 × 11 = 66	6 × 12 = 72
7 × 7 = 49	7 × 8 = 56	7 × 9 = 63	7 × 10 = 70	7 × 11 = 77	7 × 12 = 84
8 × 7 = 56	8 × 8 = 64	8 × 9 = 72	8 × 10 = 80	8 × 11 = 88	8 × 12 = 96
9 × 7 = 63	9 × 8 = 72	9 × 9 = 81	9 × 10 = 90	9 × 11 = 99	9 × 12 = 108
10 × 7 = 70	10 × 8 = 80	10 × 9 = 90	10 × 10 = 100	10 × 11 = 110	10 × 12 = 120
11 × 7 = 77	11 × 8 = 88	11 × 9 = 99	11 × 10 = 110	11 × 11 = 121	11 × 12 = 132
12 × 7 = 84	12 × 8 = 96	12 × 9 = 108	12 × 10 = 120	12 × 11 = 132	12 × 12 = 144

Written calculations

### Multiplying and Dividing by 10, 100 and 1000

×10	×100	×1000
1 × 10 = 10	1 × 100 = 100	1 × 1000 = 1000
2 × 10 = 20	2 × 100 = 200	2 × 1000 = 2000
3 × 10 = 30	3 × 100 = 300	3 × 1000 = 3000
4 × 10 = 40	4 × 100 = 400	4 × 1000 = 4000
5 × 10 = 50	5 × 100 = 500	5 × 1000 = 5000
6 × 10 = 60	6 × 100 = 600	6 × 1000 = 6000
7 × 10 = 70	7 × 100 = 700	7 × 1000 = 7000
8 × 10 = 80	8 × 100 = 800	8 × 1000 = 8000
9 × 10 = 90	9 × 100 = 900	9 × 1000 = 9000
10 × 10 = 100	10 × 100 = 1000	10 × 1000 = 10 000
11 × 10 = 110	11 × 100 = 1100	11 × 1000 = 11 000
12 × 10 = 120	12 × 100 = 1200	12 × 1000 = 12 000

×10: Move all of the digits one place to the left. Put a zero in the empty space (as a placeholder).

×100: Move all of the digits two places to the left. Put two zeros in the empty spaces (as placeholders).



×1000: Move all of the digits three places to the left. Place three zeros in the empty spaces (as placeholders).

÷10	÷100	÷1000
10 ÷ 10 = 1	100 ÷ 100 = 1	1000 ÷ 1000 = 1
20 ÷ 10 = 2	200 ÷ 100 = 2	2000 ÷ 1000 = 2
30 ÷ 10 = 3	300 ÷ 100 = 3	3000 ÷ 1000 = 3
40 ÷ 10 = 4	400 ÷ 100 = 4	4000 ÷ 1000 = 4
50 ÷ 10 = 5	500 ÷ 100 = 5	5000 ÷ 1000 = 5
60 ÷ 10 = 6	600 ÷ 100 = 6	6000 ÷ 1000 = 6
70 ÷ 10 = 7	700 ÷ 100 = 7	7000 ÷ 1000 = 7
80 ÷ 10 = 8	800 ÷ 100 = 8	8000 ÷ 1000 = 8
90 ÷ 10 = 9	900 ÷ 100 = 9	9000 ÷ 1000 = 9
100 ÷ 10 = 10	1000 ÷ 100 = 10	10 000 ÷ 1000 = 10
110 ÷ 10 = 11	1100 ÷ 100 = 11	11 000 ÷ 1000 = 11
120 ÷ 10 = 12	1200 ÷ 100 = 12	12 000 ÷ 1000 = 12

÷10: Move all of the digits one place to the right.

÷100: Move all of the digits two places to the right.

÷1000: Move all of the digits three places to the right.

## Addition (with more than 4-digit numbers)

	3	5	1	7
+		3	9	6
<hr/>				
	3	9	1	3

Add the ones first.

## Subtraction

(with numbers with more than 5-digits)

	2	8	9	2	8
-		2	1	2	8
<hr/>					
	2	8	9	2	8