

# Spelling in context

1. Apply spelling rules when writing.	
2. Discover and correct misspelt words	
• plural forms in which 'y' is changed to 'i' and 'f' to 'v' before adding an "es" ending	
• words that double the final consonant before adding endings	
• words that drop the final 'e' before an ending	
• 'ie' and 'ei' words	
• words with hard and soft 'c' and 'g'	
• words with silent letters	
• convert compound words into plural forms	
• when a word ends in a silent 'e', drop the 'e' before adding -ing	
• for action words that end in '-ie', change the '-ie' to a '-y' before adding 'ing'	
• when the suffix -full is added to the end of a base word, drop one 'l'	
• double the last letter of words ending in a short vowel followed by a single consonant before adding a '-y' e.g. bag - baggy	
• add a '-y' to words ending with two consonants to form describing words e.g. dirt-dirty	
• for words ending in a silent 'e', drop the 'e' before adding '-y' e.g. ice-icy	

## Capitalisation and Punctuation in context

1. Use punctuation marks and capital letters correctly in writing	
<ul style="list-style-type: none"><li>• use the colon and quotation marks for dialogue, titles and direct speech</li></ul>	
<ul style="list-style-type: none"><li>• use the following punctuation marks in sentences: full stop, question mark, exclamation mark, apostrophe in contractions and possessives, quotation marks, colons and commas</li></ul>	
<ul style="list-style-type: none"><li>• use capital letters in sentences for: first word in a quotation; title of books, chapters, poems; title of proper names; important words in headlines, subject heading</li></ul>	
<ul style="list-style-type: none"><li>• edit capitalisation and punctuation in sentences</li></ul>	

## Grammar in context

1. Use parts of speech with correct verb tense and concord in writing	
• ensure noun and pronoun concord	
• ensure agreement of subject and verb and subject and pronoun	
• use Nouns: common, proper, collective and abstract in sentences	
• use Adjectives: comparative and superlative degree	
• use Pronouns: Personal, Possessive, Reflexive and Relative Pronoun.	
• use Prepositions in context	
• use Conjunctions to combine ideas and sentences	
• use verbal forms: simple present, past, future, present continuous tense, past perfect tense	
• use the correct form of the verb in writing	
• use regular and irregular verb forms	
• choose verbs to agree with subjects in number	
• ensure concord in sentences that contain parenthetical phrases	
• recognize the function of prepositions, adverbs, adjectives, nouns, verbal forms and conjunctions in context	

# NUMBER STRAND

## Whole Numbers

1. Represent any number up to one million using numerals or word names	
2. Represent whole numbers to 1 000 000 using multiple models and connect to numerals and number names.	
3. Represent a number up to one million concretely, pictorially, symbolically.	
4. State the value or place value of a digit in any whole number up to one million.	
5. Express a whole number up to one million using expanded notation	
6. Write the numeral represented by a given expanded notation	
7. Order whole numbers to one million	
8. Compare whole numbers to one million	
9. Round whole numbers to the nearest thousand	
10. Solve problems in addition (sum less than 10 000) and subtraction (minuend less than 10 000)	
11. Multiply two, three and four digit numbers by one or two-digit multipliers	
12. Divide two, three and four digit numbers by one or two digit divisors with and without remainder	
13. Use estimation strategies in problem solving contexts with whole numbers	
14. Use estimation skills to check solutions to problems and determine reasonableness of answer	
15. Solve one-step word problems involving any one of the four basic operations on whole numbers	
16. Solve multi-step words problems involving any combination of the four basic operations on whole numbers	
17. Explain or demonstrate how an answer was obtained when solving problems	
18. Calculate the square of a number	

19. Differentiate between factors and multiples and prime and composite numbers and identify square numbers	
20. Calculate the square root of a perfect square	
21. List square numbers up to 144	
22. Explore patterns involving square numbers up to 144	
23. Explore patterns involving square roots up to 12	
24. Solve problems involving the use of number patterns	
25. Explore repeating, increasing and decreasing patterns	
26. Calculate the unknown in number sentences involving the four operations and explain procedures used	
27. Interpret the remainder in relation to the context of word problems	
28. Explain why a remainder is obtained for some division problems	
29. Identify the missing numbers in an ordered sequence or on a number line	
30. Use a pattern rule to determine missing elements for a given pattern and to extend or predict subsequent elements in patterns	



# Fractions

31. Represent a fraction using pictorial and symbolic representations	
32. Generate equivalent fractions using a variety of models	
33. Order proper fractions with unlike denominators using equivalent forms	
34. Demonstrate an understanding of proper fractions, improper fractions and mixed numbers	
35. Express improper fractions as mixed numbers	
36. Express mixed numbers as improper fractions	
37. Add and subtract fractions involving same denominator	
38. Add and subtract fractions involving one denominator as a multiple of the other	
39. Subtract a fraction from a whole number	
40. Add a fraction to a whole number	
41. Subtract two fractions (including whole/mixed numbers)	
42. Calculate fractions of a collection or set	
43. Express one quantity as a fraction of another	
44. Calculate the whole given a part as a unit fraction	
45. Solve problems involving the multiplication of a fraction by a whole number	
48. Divide a whole number by a fraction	
49. Divide a fraction by a whole number	
51. Multiply fractions by whole numbers	
52. Solve one-step problems involving fractions	
53. Solve multi-step problems involving fractions	
54. Solve real-life problems involving fractions and using the algorithms developed	
55. State the place value of digits in decimal fractions up to hundredths	
56. Explore the place value of decimals to hundredths including expanded notation	

57. State the value of digits in decimal fractions up to hundredths	
58. Compare and order decimals up to hundredths	
59. Express decimal fractions using expanded notation	
60. Convert expanded notation to decimal fractions	
61. Arrange decimal fractions in ascending and descending order (up to hundredths)	
62. Round decimals to the nearest whole number and tenths	
63. Solve problems involving the addition and subtraction of decimals including money	
64. Solve problems involving the multiplication of a decimal by a whole number	
66. Relate decimals to fractions and money	
67. Solve problems involving the division of a decimal fraction by a whole number (dividend up to 2 decimal places)	
68. Use a number of strategies to solve routine and non-routine problems involving decimals	
69. Express decimals as common fractions	
70. Use decimal notation as another form of writing base ten fractions (tenths, hundredths)	
71. Solve real-world problems involving the addition and subtraction of decimals to hundredths using the algorithm	
72. Calculate simple per cent of quantities e.g. 10% of \$200 = $\frac{1}{10}$ of \$200 = \$20	
73. Express percentages (e.g. 50%, 25%, 20% and 10%) as fractions (e.g. $\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{5}$ , $\frac{1}{10}$ ).	
74. Express percentages (e.g. 50%, 25%, 20% and 10%) as decimals (e.g. 0.5, 0.25, 0.2 and 0.1)	
75. Order fractions, decimals and percentages	
76. Express quantities as percentages of other quantities	
77. Solve one – step problems involving percentages (no gain and loss per cent, no calculation of whole quantities given parts expressed as percent and no calculations of part of quantities given another part expressed as a per cent)	

78. Solve multi – step problems involving percentages (no gain and loss percent, no calculation of whole quantities given parts expressed as per cent and no calculations of part of quantities given another part expressed as a per cent)	
79. Identify coins, bills, their value and the value of a set of coins/bills (up to 100 cents and \$100)	
80. Determine the possible combinations of coins/bills, which are equal to given amounts (up to 100 cents and \$100)	
81. Record money values using decimals	
83. Solve real-life, one-step problems involving whole numbers, (including profit and loss, best buy, discount)	
84. Solve real-life, multi-step problems involving whole numbers, (including profit and loss, best buy, discount)	
85. Solve problems involving direct proportions	
86. Solve problems involving unequal sharing (not including the use of ratio)	
87. Select and use the most appropriate standard unit for measuring various lengths/distances	
88. Convert linear measure from one form to the other (millimetres, centimetres, metres, kilometres)	
89. Apply decimal knowledge to record measurements. e.g. 123cm = 1.23m	
90. Solve computational problems involving the metre and the centimetre by using the relationship between them	
91. Write and explain the formulae for finding the perimeter of any given rectangle and square	
92. Calculate and compare perimeters of squares and rectangles	
93. Construct or draw two or more rectangles for a given perimeter in a problem-solving context	
95. Solve problems in real-life contexts involving perimeter.	
96. Solve problems involving length	
98. Select the appropriate unit of measure when measuring surfaces of varying sizes and explain the suitability of the unit	



99. Write and explain the formula for finding the area of squares and rectangles	
100. Compare and order area of surfaces and explain reasoning using appropriate vocabulary	
101. Approximate the area of surfaces to the nearest square metre or square centimetre	
102. Estimate and verify the area of shapes using square metres and centimetres, and determine reasonableness of answer	
104. Draw different shapes of a given area on grids	
105. Calculate area of shapes drawn on a grid with unit squares	
107. Solve problems involving area and perimeter of plane shapes	
108. Solve problems in real-life contexts involving area	
109. State the relationship between the litre and millilitre and convert from one to the other	
111. Measure the volume of boxes by stacking and packing cubic blocks into them and counting to determine the volume	
114. Solve problems involving capacity, number and money	
116. Measure and compare the masses/weights of objects in kilograms and grams using a set of scales	
117. Convert kilograms to grams and vice versa	
118. State the relationship between the kilogram and gram	
119. Determine the most appropriate standard unit for measuring mass/weight	
121. Solve problems involving different units of mass/weight (e.g. Find the total mass/weight of three items weighing 50g, 750g and 2.5kg)	
122. Solve computational and real-life problems involving grams and kilograms	
123. Solve real-life problems involving mass/weight, number and money	
124. Tell time in five minute intervals using the digital and analog clocks.	
125. State the time after given intervals on analog and digital clocks	