

## Class 6<sup>th</sup> Maths Syllabus

### Whole numbers

1. **A.1**  
Place values in whole numbers
2. **A.2**  
Word names for numbers
3. **A.3**  
Roman numerals
4. **A.4**  
Add and subtract whole numbers
5. **A.5**  
Add and subtract whole numbers: word problems

### Multiplication

1. **B.1**  
Multiply whole numbers
2. **B.2**  
Multiply whole numbers: word problems
3. **B.3**  
Multiply numbers ending in zeroes
4. **B.4**  
Multiply numbers ending in zeroes: word problems
5. **B.5**  
Multiply three or more numbers
6. **B.6**  
Multiply three or more numbers: word problems
7. **B.7**  
Estimate products

### Division

1. **C.1**  
Divisibility rules
2. **C.2**  
Division patterns with zeroes
3. **C.3**  
Divide numbers ending in zeroes: word problems
4. **C.4**  
Estimate quotients
5. **C.5**  
Divide whole numbers - two-digit divisors

## Number theory

1. **D.1**  
Prime or composite
2. **D.2**  
Identify factors
3. **D.3**  
Prime factorisation
4. **D.4**  
Prime factorisation with exponents
5. **D.5**  
Highest common factor
6. **D.6**  
Lowest common multiple
7. **D.7**  
HCF and LCM: word problems

## Decimals

1. **E.1**  
What decimal number is illustrated?
2. **E.2**  
Decimal place values
3. **E.3**  
Word names for decimal numbers
4. **E.4**  
Convert decimals to mixed numbers
5. **E.5**  
Put decimal numbers in order
6. **E.6**  
Inequalities with decimals
7. **E.7**  
Round decimals
8. **E.8**  
Round whole numbers and decimals: find the missing digit
9. **E.9**  
Decimal number lines

## Add and subtract decimals

1. **F.1**  
Add and subtract decimal numbers
2. **F.2**

Add and subtract decimals: word problems

3. **F.3**

Estimate sums and differences of decimals

4. **F.4**

Maps with decimal distances

## Fractions and mixed numbers

1. **G.1**

Fractions and mixed numbers

2. **G.2**

Understanding fractions: word problems

3. **G.3**

Equivalent fractions

4. **G.4**

Write fractions in lowest terms

5. **G.5**

Fractions: word problems

6. **G.6**

Lowest common denominator

7. **G.7**

Compare fractions with like and unlike denominators

8. **G.8**

Compare fractions: word problems

9. **G.9**

Convert between improper fractions and mixed numbers

10. **G.10**

Convert between decimals and fractions or mixed numbers

11. **G.11**

Put a mix of decimals, fractions and mixed numbers in order

## Add and subtract fractions

1. **H.1**

Add and subtract fractions with like denominators

2. **H.2**

Add and subtract fractions with like denominators: word problems

3. **H.3**

Add and subtract fractions with unlike denominators

4. **H.4**

Add and subtract fractions with unlike denominators: word problems

5. **H.5**

Inequalities with addition and subtraction of like and unlike fractions

6. **H.6**

Add and subtract mixed numbers

7. **H.7**

Add and subtract mixed numbers: word problems

8. **H.8**

Estimate sums and differences of mixed numbers

## Integers

1. **I.1**

Understanding integers

2. **I.2**

Integers on number lines

3. **I.3**

Graph integers on horizontal and vertical number lines

4. **I.4**

Compare and order integers

## Operations with integers

1. **J.1**

Add integers using counters

2. **J.2**

Add integers

3. **J.3**

Subtract integers using counters

4. **J.4**

Subtract integers

5. **J.5**

Add and subtract integers: find the sign

6. **J.6**

Add and subtract integers: input/output tables

7. **J.7**

Add three or more integers

## Mixed operations

1. **K.1**

Add, subtract, multiply or divide two whole numbers

2. **K.2**

Add, subtract, multiply or divide two whole numbers: word problems

3. **K.3**

Evaluate numerical expressions

4. **K.4**

Add and subtract decimals or fractions

5. **K.5**

Add and subtract decimals or fractions: word problems

6. **K.6**

Add, subtract, multiply or divide two integers

## Problem solving and estimation

1. **L.1**

Estimate to solve word problems

2. **L.2**

Multi-step word problems

3. **L.3**

Word problems with extra or missing information

4. **L.4**

Guess-and-check word problems

5. **L.5**

Distance/direction to starting point

6. **L.6**

Use logical reasoning to find the order

## Ratios and rates

1. **M.1**

Write a ratio

2. **M.2**

Write a ratio: word problems

3. **M.3**

Identify equivalent ratios

4. **M.4**

Write an equivalent ratio

5. **M.5**

Ratio tables

6. **M.6**

Unit rates and equivalent rates

7. **M.7**

Compare ratios: word problems

8. **M.8**

Do the ratios form a proportion?

9. **M.9**

Solve the proportion

10. **M.10**

Scale drawings: word problems

## Units of measurement

1. **N.1**

Estimate metric measurements

2. **N.2**

Convert and compare metric units

3. **N.3**

Metric mixed units

4. **N.4**

Convert square and cubic units of length

5. **N.5**

Convert between cubic metres and litres

6. **N.6**

Compare temperatures above and below zero

## Money

1. **O.1**

Find the number of each type of coin

2. **O.2**

Add and subtract money amounts

3. **O.3**

Add and subtract money amounts: word problems

4. **O.4**

Multiply money: word problems

5. **O.5**

Divide money amounts

6. **O.6**

Divide money amounts: word problems

## Time

1. **P.1**

Elapsed time

2. **P.2**

Time units

3. **P.3**

Find start and end times

4. **P.4**

Convert between 12-hour and 24-hour time

5. **P.5**

Transportation schedules

## Expressions and properties

1. **Q.1**

Write variable expressions

2. **Q.2**

Evaluate variable expressions

3. **Q.3**

Properties of addition and multiplication

4. **Q.4**

Multiply using the distributive property

5. **Q.5**

Write equivalent expressions using properties

6. **Q.6**

Properties of addition

7. **Q.7**

Properties of multiplication

8. **Q.8**

Solve for a variable using properties of multiplication

9. **Q.9**

Identify equivalent expressions

## One-variable equations

1. **R.1**

Write variable equations: word problems

2. **R.2**

Solve equations using properties

3. **R.3**

Solve equations

## Two-dimensional figures

1. **S.1**

Is it a polygon?

2. **S.2**

Types of angles

3. **S.3**

Measure angles with a protractor

4. **S.4**

Regular and irregular polygons

5. **S.5**

Number of sides in polygons

6. **S.6**

Classify triangles

7. **S.7**

Identify trapeziums

8. **S.8**

Classify quadrilaterals

9. **S.9**

Graph triangles and quadrilaterals

10. **S.10**

Find the unknown angle in triangles and quadrilaterals

11. **S.11**

Lines, line segments and rays

12. **S.12**

Parallel, perpendicular and intersecting lines

13. **S.13**

Parts of a circle

## Symmetry and transformations

1. **T.1**

Lines of symmetry

2. **T.2**

Rotational symmetry

3. **T.3**

Reflection, rotation and translation

4. **T.4**

Identify congruent and similar figures

## Constructions

1. **U.1**

Construct the midpoint or perpendicular bisector of a segment

2. **U.2**

Construct an angle bisector

3. **U.3**

Construct a perpendicular line

4. **U.4**

Construct an equilateral triangle or regular hexagon

## Three-dimensional figures

1. **V.1**



Identify three-dimensional figures

2. **V.2**

Count vertices, edges and faces

3. **V.3**

Which figure is being described?

4. **V.4**

Nets of three-dimensional figures

5. **V.5**

Three-dimensional figures viewed from different perspectives

## Geometric measurement

1. **W.1**

Perimeter

2. **W.2**

Area of squares and rectangles

3. **W.3**

Area of compound figures

4. **W.4**

Area between two rectangles

5. **W.5**

Area and perimeter of figures on grids

6. **W.6**

Area and perimeter: word problems

7. **W.7**

Use area and perimeter to determine cost

8. **W.8**

Volume of figures made of unit cubes

## Data and graphs

1. **X.1**

Interpret pictographs

2. **X.2**

Create pictographs

3. **X.3**

Interpret stem-and-leaf plots

4. **X.4**

Create stem-and-leaf plots

5. **X.5**

Interpret line plots

6. **X.6**

Create line plots

7. **X.7**

Create frequency tables

8. **X.8**

Interpret bar graphs

9. **X.9**

Create bar graphs

10. **X.10**

Interpret histograms

11. **X.11**

Create histograms

12. **X.12**

Interpret line graphs

13. **X.13**

Create line graphs

## Probability

1. **Y.1**

Combinations

2. **Y.2**

Make predictions

3. **Y.3**

Compound events - find the number of outcomes by counting

# Class 6<sup>th</sup> English Syllabus

## Reading strategies

### Main idea

1. **A.1**  
Determine the main idea of a passage

### Theme

1. **B.1**  
Match the quotations with their themes
2. **B.2**  
Determine the themes of short stories

### Author's purpose and tone

1. **C.1**  
Which sentence is more formal?
2. **C.2**  
Compare passages for tone
3. **C.3**  
Identify author's purpose

### Text structure

1. **D.1**  
Compare and contrast in informational texts
2. **D.2**  
Match causes and effects in informational texts
3. **D.3**  
Match problems with their solutions
4. **D.4**  
Identify text structures

### Literary devices

1. **E.1**  
Interpret figures of speech
2. **E.2**  
Classify figures of speech
3. **E.3**  
Analyse the effects of figures of speech on meaning and tone

### Analysing literature

1. **F.1**

Analyse short stories

## Analysing informational texts

1. **G.1**  
Read and understand informational passages
2. **G.2**  
Trace an argument

## Comparing texts

1. **H.1**  
Compare two texts with different genres

## Visual elements

1. **I.1**  
Compare illustrations of literary and historical subjects

## Writing strategies

### Organising writing

1. **J.1**  
Order topics from broadest to narrowest
2. **J.2**  
Organise information by main idea
3. **J.3**  
Transitions with conjunctive adverbs

### Developing and supporting arguments

1. **K.1**  
Distinguish facts from opinions
2. **K.2**  
Choose evidence to support a claim
3. **K.3**  
Identify supporting details in informational texts
4. **K.4**  
Identify supporting details in literary texts
5. **K.5**  
Identify counterclaims

### Creative techniques

1. **L.1**  
Use personification

## Editing and revising

1. **M.1**  
Use the correct frequently confused word
2. **M.2**  
Correct errors with frequently confused words
3. **M.3**  
Suggest appropriate revisions

## Research skills

1. **N.1**  
Identify and correct plagiarism

# Vocabulary

## Prefixes and suffixes

1. **O.1**  
Words with pre-
2. **O.2**  
Words with re-
3. **O.3**  
Words with sub-
4. **O.4**  
Words with mis-
5. **O.5**  
Words with un-, dis-, in-, im- and non-
6. **O.6**  
Words with -ful
7. **O.7**  
Words with -less
8. **O.8**  
Words with -able and -ible

## Greek and Latin roots

1. **P.1**  
Use Greek and Latin roots as clues to the meanings of words
2. **P.2**  
Use the meanings of words as clues to the meanings of Greek and Latin roots
3. **P.3**  
Use words as clues to the meanings of Greek and Latin roots
4. **P.4**  
Determine the meanings of Greek and Latin roots

5. **P.5**

Determine the meanings of words with Greek and Latin roots

## Synonyms and antonyms

1. **Q.1**

Choose the synonym

2. **Q.2**

Find synonyms in context

3. **Q.3**

Choose the antonym

4. **Q.4**

Find antonyms in context

## Homophones

1. **R.1**

Use the correct homophone

2. **R.2**

Which definition matches the sentence?

3. **R.3**

Which sentence matches the definition?

## Shades of meaning

1. **S.1**

Describe the difference between related words

2. **S.2**

Positive and negative connotation

## Analogies

1. **T.1**

Analogies

2. **T.2**

Analogies: challenge

## Context clues

1. **U.1**

Find words using context

2. **U.2**

Determine the meaning of words using synonyms in context

3. **U.3**

Determine the meaning of words using antonyms in context

4. **U.4**

Use context to identify the meaning of a word

5. **U.5**

Determine the meaning of domain-specific words with pictures

## Reference skills

1. **V.1**

Alphabetical order

2. **V.2**

Use guide words

3. **V.3**

Use dictionary entries

4. **V.4**

Use dictionary definitions

5. **V.5**

Use thesaurus entries

## Grammar and mechanics

### Sentences, fragments and run-ons

1. **W.1**

Is the sentence declarative, interrogative, imperative or exclamatory?

2. **W.2**

Identify the complete subject or complete predicate of a sentence

3. **W.3**

Identify the simple subject or simple predicate of a sentence

4. **W.4**

Identify the compound subject or compound predicate of a sentence

5. **W.5**

Is it a complete sentence or a fragment?

6. **W.6**

Is it a complete sentence or a run-on?

7. **W.7**

Is it a complete sentence, a fragment or a run-on?

8. **W.8**

Identify dependent and independent clauses

9. **W.9**

Is the sentence simple, compound or complex?

### Nouns

1. **X.1**

Identify common and proper nouns

2. **X.2**  
Form plurals of nouns ending in f, fe, o and y
3. **X.3**  
Form and use plurals of nouns ending in f, fe, o and y
4. **X.4**  
Form plurals: review
5. **X.5**  
Form and use plurals: review
6. **X.6**  
Identify plurals, singular possessives and plural possessives
7. **X.7**  
Form the singular or plural possessive
8. **X.8**  
Identify and correct errors with plural and possessive nouns

## Pronouns and antecedents

1. **Y.1**  
Identify pronouns and their antecedents
2. **Y.2**  
Use the pronoun that agrees with the antecedent
3. **Y.3**  
Identify vague pronoun references
4. **Y.4**  
Identify all of the possible antecedents
5. **Y.5**  
Correct inappropriate shifts in pronoun number and person

## Pronoun types

1. **Z.1**  
Choose between subject and object pronouns
2. **Z.2**  
Compound subjects and objects with 'I' and 'me'
3. **Z.3**  
Compound subjects and objects with pronouns
4. **Z.4**  
Use possessive pronouns
5. **Z.5**  
Choose between personal and reflexive pronouns
6. **Z.6**



Use reflexive pronouns

7. **Z.7**

Is the pronoun reflexive or intensive?

8. **Z.8**

Identify relative pronouns

9. **Z.9**

Use relative pronouns: who and whom

10. **Z.10**

Use relative pronouns: who, whom, whose, which and that

## Verb types

1. **AA.1**

Identify main verbs and helping verbs

2. **AA.2**

Identify transitive and intransitive verbs

3. **AA.3**

Identify linking verbs, predicate adjectives and predicate nouns

4. **AA.4**

What does the modal verb show?

5. **AA.5**

Use the correct modal verb

## Subject-verb agreement

1. **BB.1**

Use the correct subject or verb

2. **BB.2**

Use the correct verb – with compound subjects

## Verb tense

1. **CC.1**

Irregular past tense: review

2. **CC.2**

Simple past, present and future tense: review

3. **CC.3**

Correct inappropriate shifts in verb tense

4. **CC.4**

Use the progressive verb tenses

5. **CC.5**

Form the progressive verb tenses

6. **CC.6**

Choose between the past tense and past participle

7. **CC.7**  
Use the perfect verb tenses
8. **CC.8**  
Form the perfect verb tenses

## Adjectives and adverbs

1. **DD.1**  
Identify adjectives
2. **DD.2**  
Order adjectives
3. **DD.3**  
Identify adverbs
4. **DD.4**  
Use relative adverbs
5. **DD.5**  
Choose between adjectives and adverbs
6. **DD.6**  
Is the word an adjective or adverb?
7. **DD.7**  
Form and use comparative and superlative adjectives
8. **DD.8**  
Good, better, best, bad, worse and worst
9. **DD.9**  
Form and use comparative and superlative adverbs
10. **DD.10**  
Well, better, best, badly, worse and worst

## Prepositions

1. **EE.1**  
Identify prepositions
2. **EE.2**  
Identify prepositions and their objects
3. **EE.3**  
Identify prepositional phrases
4. **EE.4**  
Prepositions: review

## Conjunctions

1. **FF.1**  
Use coordinating conjunctions

2. **FF.2**  
Identify coordinating conjunctions
3. **FF.3**  
Identify subordinating conjunctions
4. **FF.4**  
Use the correct pair of correlative conjunctions
5. **FF.5**  
Fill in the missing correlative conjunction

## Contractions

1. **GG.1**  
Pronoun-verb contractions
2. **GG.2**  
Contractions with 'not'

## Punctuation

1. **HH.1**  
Commas with compound and complex sentences
2. **HH.2**  
Commas with direct addresses, introductory words, interjections and interrupters
3. **HH.3**  
Commas with coordinate adjectives
4. **HH.4**  
Commas with non-restrictive elements
5. **HH.5**  
Use dashes

## Capitalisation

1. **II.1**  
Correct capitalisation errors
2. **II.2**  
Capitalising titles

## Formatting

1. **JJ.1**  
Formatting titles
2. **JJ.2**  
Formatting and capitalising titles: review

# Class 7<sup>th</sup> English Syllabus

## Reading strategies

### Main idea

1. **A.1**  
Determine the main idea of a passage

### Theme

1. **B.1**  
Match the quotations with their themes
2. **B.2**  
Determine the themes of short stories

### Author's purpose and tone

1. **C.1**  
Identify author's purpose
2. **C.2**  
Which sentence is more formal?
3. **C.3**  
Compare passages for tone

### Text structure

1. **D.1**  
Compare and contrast in informational texts
2. **D.2**  
Match causes and effects in informational texts
3. **D.3**  
Match problems with their solutions
4. **D.4**  
Identify text structures

### Literary devices

1. **E.1**  
Interpret figures of speech
2. **E.2**  
Classify figures of speech
3. **E.3**  
Analyse the effects of figures of speech on meaning and tone

### Analysing literature

1. **F.1**

Analyse short stories

## Analysing informational texts

1. **G.1**  
Read and understand informational passages
2. **G.2**  
Trace an argument

## Comparing texts

1. **H.1**  
Compare two texts with different genres

## Visual elements

1. **I.1**  
Compare illustrations of literary and historical subjects

## Writing strategies

### Organising writing

1. **J.1**  
Order topics from broadest to narrowest
2. **J.2**  
Organise information by main idea
3. **J.3**  
Transitions with conjunctive adverbs

### Developing and supporting arguments

1. **K.1**  
Distinguish facts from opinions
2. **K.2**  
Choose evidence to support a claim
3. **K.3**  
Identify supporting details in informational texts
4. **K.4**  
Identify supporting details in literary texts
5. **K.5**  
Identify counterclaims

### Creative techniques

1. **L.1**  
Use personification

## Editing and revising

1. **M.1**  
Use parallel structure
2. **M.2**  
Remove redundant words or phrases
3. **M.3**  
Use the correct frequently confused word
4. **M.4**  
Correct errors with frequently confused words
5. **M.5**  
Suggest appropriate revisions

## Research skills

1. **N.1**  
Identify plagiarism

# Vocabulary

## Prefixes and suffixes

1. **O.1**  
Words with pre-
2. **O.2**  
Words with re-
3. **O.3**  
Words with sub-
4. **O.4**  
Words with mis-
5. **O.5**  
Words with un-, dis-, in-, im- and non-
6. **O.6**  
Words with -ful
7. **O.7**  
Words with -less
8. **O.8**  
Words with -able and -ible

## Greek and Latin roots

1. **P.1**  
Use Greek and Latin roots as clues to the meanings of words
2. **P.2**  
Use words as clues to the meanings of Greek and Latin roots

3. **P.3**

Determine the meanings of Greek and Latin roots

4. **P.4**

Determine the meanings of words with Greek and Latin roots

## Synonyms and antonyms

1. **Q.1**

Choose the synonym

2. **Q.2**

Choose the antonym

## Homophones

1. **R.1**

Use the correct homophone

2. **R.2**

Which definition matches the sentence?

3. **R.3**

Which sentence matches the definition?

## Shades of meaning

1. **S.1**

Describe the difference between related words

2. **S.2**

Positive and negative connotation

## Analogies

1. **T.1**

Analogies

2. **T.2**

Analogies: challenge

## Context clues

1. **U.1**

Find words using context

2. **U.2**

Determine the meaning of words using synonyms in context

3. **U.3**

Determine the meaning of words using antonyms in context

4. **U.4**

Use context to identify the meaning of a word

## Domain-specific vocabulary

1. **V.1**

Determine the meaning of domain-specific words with pictures

## Reference skills

1. **W.1**

Alphabetical order

2. **W.2**

Use guide words

3. **W.3**

Use dictionary entries

4. **W.4**

Use dictionary definitions

5. **W.5**

Use thesaurus entries

## Grammar and mechanics

### Sentences, fragments and run-ons

1. **X.1**

Is the sentence declarative, interrogative, imperative or exclamatory?

2. **X.2**

Identify the complete subject or complete predicate of a sentence

3. **X.3**

Identify the simple subject or simple predicate of a sentence

4. **X.4**

Identify the compound subject or compound predicate of a sentence

5. **X.5**

Is it a complete sentence or a fragment?

6. **X.6**

Is it a complete sentence or a run-on?

7. **X.7**

Is it a complete sentence, a fragment or a run-on?

### Phrases and clauses

1. **Y.1**

Is it a phrase or a clause?

2. **Y.2**

Identify appositives and appositive phrases

3. **Y.3**

Identify dependent and independent clauses

4. **Y.4**



Is the sentence simple, compound, complex or compound-complex?

5. **Y.5**

Combine sentences using relative clauses

## Nouns

1. **Z.1**

Form and use plurals: review

2. **Z.2**

Form and use plurals of compound nouns

3. **Z.3**

Identify plurals, singular possessives and plural possessives

4. **Z.4**

Form the singular or plural possessive

5. **Z.5**

Identify and correct errors with plural and possessive nouns

## Pronouns and antecedents

1. **AA.1**

Identify pronouns and their antecedents

2. **AA.2**

Use the pronoun that agrees with the antecedent

3. **AA.3**

Identify vague pronoun references

4. **AA.4**

Identify all of the possible antecedents

5. **AA.5**

Correct inappropriate shifts in pronoun number and person

## Pronoun types

1. **BB.1**

Choose between subject and object pronouns

2. **BB.2**

Compound subjects and objects with 'I' and 'me'

3. **BB.3**

Compound subjects and objects with pronouns

4. **BB.4**

Choose between personal and reflexive pronouns

5. **BB.5**

Use reflexive pronouns

6. **BB.6**

Is the pronoun reflexive or intensive?

7. **BB.7**

Use relative pronouns: who and whom

8. **BB.8**

Use relative pronouns: who, whom, whose, which and that

## Verb types

1. **CC.1**

Identify transitive and intransitive verbs

2. **CC.2**

Identify linking verbs, predicate adjectives and predicate nouns

## Subject-verb agreement

1. **DD.1**

Correct errors with subject-verb agreement

2. **DD.2**

Correct errors with indefinite pronoun-verb agreement

3. **DD.3**

Use the correct verb – with compound subjects

## Verb tense

1. **EE.1**

Irregular past tense: review

2. **EE.2**

Simple past, present and future tense: review

3. **EE.3**

Identify and correct inappropriate shifts in verb tense

4. **EE.4**

Form the progressive verb tenses

5. **EE.5**

Form the perfect verb tenses

## Adjectives and adverbs

1. **FF.1**

Identify adjectives

2. **FF.2**

Order adjectives

3. **FF.3**

Identify adverbs

4. **FF.4**

Choose between adjectives and adverbs

5. **FF.5**

Is the word an adjective or adverb?

6. **FF.6**

Form and use comparative and superlative adjectives

7. **FF.7**

Good, better, best, bad, worse and worst

8. **FF.8**

Form and use comparative and superlative adverbs

9. **FF.9**

Well, better, best, badly, worse and worst

## Prepositions

1. **GG.1**

Identify prepositional phrases

## Direct and indirect objects

1. **HH.1**

Is it a direct object or an indirect object?

## Conjunctions

1. **II.1**

Use the correct pair of correlative conjunctions

## Misplaced modifiers

1. **JJ.1**

Misplaced modifiers with pictures

2. **JJ.2**

Select the misplaced or dangling modifier

3. **JJ.3**

Are the modifiers used correctly?

## Restrictive and non-restrictive elements

1. **KK.1**

Commas with non-restrictive elements

## Commas

1. **LL.1**

Commas with compound and complex sentences

2. **LL.2**

Commas with direct addresses, introductory words, interjections and interrupters

3. **LL.3**

Commas with coordinate adjectives

## Semicolons, colons and commas

1. **MM.1**  
Use semicolons and commas to separate clauses
2. **MM.2**  
Use semicolons, colons and commas with lists

## Dashes, hyphens and ellipses

1. **NN.1**  
Use dashes
2. **NN.2**  
Use hyphens in compound adjectives
3. **NN.3**  
Decide whether ellipses are used appropriately

## Capitalisation

1. **OO.1**  
Correct capitalisation errors
2. **OO.2**  
Capitalising titles

## Formatting

1. **PP.1**  
Formatting titles
2. **PP.2**  
Formatting and capitalising titles: review

## Class 7<sup>th</sup> Maths Syllabus

### Number theory

1. **A.1**  
Prime or composite
2. **A.2**  
Prime factorisation
3. **A.3**  
Multiplicative inverses
4. **A.4**  
Divisibility rules
5. **A.5**  
Highest common factor
6. **A.6**  
Lowest common multiple
7. **A.7**  
HCF and LCM: word problems
8. **A.8**  
Scientific notation
9. **A.9**  
Compare numbers written in scientific notation
10. **A.10**  
Classify numbers

### Integers

1. **B.1**  
Understanding integers
2. **B.2**  
Integers on number lines
3. **B.3**  
Graph integers on horizontal and vertical number lines
4. **B.4**  
Absolute value and opposite integers
5. **B.5**  
Compare and order integers

### Operations with integers

1. **C.1**  
Integer addition and subtraction rules
2. **C.2**  
Add and subtract integers using counters

3. **C.3**  
Add and subtract integers
4. **C.4**  
Complete addition and subtraction sentences with integers
5. **C.5**  
Add and subtract integers: word problems
6. **C.6**  
Integer multiplication and division rules
7. **C.7**  
Multiply and divide integers
8. **C.8**  
Complete multiplication and division sentences with integers
9. **C.9**  
Evaluate numerical expressions involving integers

## Decimals

1. **D.1**  
Decimal numbers review
2. **D.2**  
Compare and order decimals
3. **D.3**  
Decimal number lines
4. **D.4**  
Round decimals

## Operations with decimals

1. **E.1**  
Add and subtract decimals
2. **E.2**  
Add and subtract decimals: word problems
3. **E.3**  
Multiply decimals
4. **E.4**  
Multiply decimals and whole numbers: word problems
5. **E.5**  
Divide decimals
6. **E.6**  
Divide decimals by whole numbers: word problems
7. **E.7**  
Estimate sums, differences and products of decimals

8. **E.8**

Add, subtract, multiply and divide decimals: word problems

9. **E.9**

Multi-step inequalities with decimals

10. **E.10**

Maps with decimal distances

11. **E.11**

Evaluate numerical expressions involving decimals

## Fractions and mixed numbers

1. **F.1**

Understanding fractions: word problems

2. **F.2**

Equivalent fractions

3. **F.3**

Write fractions in lowest terms

4. **F.4**

Fractions: word problems with graphs and tables

5. **F.5**

Lowest common denominator

6. **F.6**

Compare and order fractions

7. **F.7**

Compare fractions: word problems

8. **F.8**

Convert between mixed numbers and improper fractions

9. **F.9**

Compare mixed numbers and improper fractions

10. **F.10**

Round mixed numbers

## Operations with fractions

1. **G.1**

Add and subtract fractions

2. **G.2**

Add and subtract fractions: word problems

3. **G.3**

Add and subtract mixed numbers

4. **G.4**

Add and subtract mixed numbers: word problems

5. **G.5**  
Inequalities with addition and subtraction of fractions and mixed numbers
6. **G.6**  
Estimate sums and differences of mixed numbers
7. **G.7**  
Multiply fractions and whole numbers
8. **G.8**  
Multiply two fractions using models
9. **G.9**  
Multiply fractions
10. **G.10**  
Multiply mixed numbers
11. **G.11**  
Multiply fractions and mixed numbers: word problems
12. **G.12**  
Divide whole numbers and unit fractions
13. **G.13**  
Divide fractions
14. **G.14**  
Divide mixed numbers
15. **G.15**  
Divide fractions and mixed numbers: word problems
16. **G.16**  
Estimate products and quotients of fractions and mixed numbers
17. **G.17**  
Add, subtract, multiply and divide fractions and mixed numbers: word problems
18. **G.18**  
Evaluate numerical expressions involving fractions

## **Rational numbers**

1. **H.1**  
Identify rational numbers
2. **H.2**  
Convert between decimals and fractions or mixed numbers
3. **H.3**  
Compare rational numbers
4. **H.4**  
Put rational numbers in order
5. **H.5**



Add and subtract rational numbers

6. **H.6**

Apply addition and subtraction rules

7. **H.7**

Multiply and divide rational numbers

8. **H.8**

Apply multiplication and division rules

## Exponents

1. **I.1**

Understanding exponents

2. **I.2**

Evaluate exponents

3. **I.3**

Solve equations with variable exponents

4. **I.4**

Exponents with negative bases

5. **I.5**

Exponents with decimal and fractional bases

6. **I.6**

Evaluate numerical expressions involving exponents

## Ratios, rates and proportions

1. **J.1**

Understanding ratios

2. **J.2**

Identify equivalent ratios

3. **J.3**

Write an equivalent ratio

4. **J.4**

Equivalent ratios: word problems

5. **J.5**

Unit rates

6. **J.6**

Compare ratios: word problems

7. **J.7**

Scale drawings: word problems

8. **J.8**

Do the ratios form a proportion?

9. **J.9**

Do the ratios form a proportion: word problems

10. **J.10**

Solve proportions

11. **J.11**

Solve proportions: word problems

12. **J.12**

Estimate population size using proportions

13. **J.13**

Rate of change

14. **J.14**

Constant rate of change

## Percents

1. **K.1**

What percentage is illustrated?

2. **K.2**

Convert between percents, fractions and decimals

3. **K.3**

Compare percents to fractions and decimals

4. **K.4**

Estimate percents of numbers

5. **K.5**

Percents of numbers and money amounts

6. **K.6**

Percents of numbers: word problems

7. **K.7**

Solve percent equations

8. **K.8**

Solve percent equations: word problems

## Consumer maths

1. **L.1**

Add, subtract, multiply and divide money amounts: word problems

2. **L.2**

Price lists

3. **L.3**

Unit prices

4. **L.4**

Unit prices: find the total price

5. **L.5**  
Percent of a number, discount and more
6. **L.6**  
Find the percent: discount and mark-up
7. **L.7**  
Sale prices: find the original price
8. **L.8**  
Multi-step problems with percents
9. **L.9**  
Estimate tips
10. **L.10**  
Simple interest

## Problem solving and estimation

1. **M.1**  
Estimate to solve word problems
2. **M.2**  
Multi-step word problems
3. **M.3**  
Guess-and-check word problems
4. **M.4**  
Use Venn diagrams to solve problems
5. **M.5**  
Find the number of each type of coin
6. **M.6**  
Elapsed time word problems

## Units of measurement

1. **N.1**  
Estimate metric measurements
2. **N.2**  
Compare and convert metric units
3. **N.3**  
Metric mixed units
4. **N.4**  
Convert square and cubic units of length
5. **N.5**  
Convert between cubic metres and litres
6. **N.6**  
Precision

## Number sequences

1. **O.1**  
Identify arithmetic and geometric sequences
2. **O.2**  
Arithmetic sequences
3. **O.3**  
Geometric sequences
4. **O.4**  
Number sequences: mixed review
5. **O.5**  
Number sequences: word problems
6. **O.6**  
Evaluate variable expressions for number sequences
7. **O.7**  
Write variable expressions for arithmetic sequences

## Expressions and properties

1. **P.1**  
Write variable expressions
2. **P.2**  
Write variable expressions: word problems
3. **P.3**  
Evaluate linear expressions
4. **P.4**  
Evaluate multi-variable expressions
5. **P.5**  
Evaluate absolute value expressions
6. **P.6**  
Evaluate nonlinear expressions
7. **P.7**  
Identify terms and coefficients
8. **P.8**  
Sort factors of expressions
9. **P.9**  
Properties of addition and multiplication
10. **P.10**  
Multiply using the distributive property
11. **P.11**  
Solve equations using properties

12. **P.12**

Write equivalent expressions using properties

13. **P.13**

Add and subtract like terms

14. **P.14**

Add, subtract and multiply linear expressions

15. **P.15**

Factors of linear expressions

16. **P.16**

Identify equivalent linear expressions

## One-variable equations

1. **Q.1**

Which  $x$  satisfies an equation?

2. **Q.2**

Write an equation from words

3. **Q.3**

Model and solve equations using algebra tiles

4. **Q.4**

Write and solve equations that represent diagrams

5. **Q.5**

Solve one-step equations

6. **Q.6**

Solve two-step equations

7. **Q.7**

Solve equations: word problems

8. **Q.8**

Solve equations involving like terms

9. **Q.9**

Solve equations: complete the solution

## Two-dimensional figures

1. **R.1**

Identify and classify polygons

2. **R.2**

Name, measure and classify angles

3. **R.3**

Classify triangles

4. **R.4**

Identify trapeziums

5. **R.5**

Classify quadrilaterals

6. **R.6**

Graph triangles and quadrilaterals

7. **R.7**

Triangle angle-sum property

8. **R.8**

Exterior angle property

9. **R.9**

Find missing angles in triangles and quadrilaterals

10. **R.10**

Interior angles of polygons

11. **R.11**

Lines, line segments and half lines

12. **R.12**

Parallel, perpendicular and intersecting lines

13. **R.13**

Identify complementary, supplementary, vertical, adjacent and congruent angles

14. **R.14**

Find measures of complementary, supplementary, vertical and adjacent angles

15. **R.15**

Transversal of parallel lines

16. **R.16**

Find lengths and measures of bisected line segments and angles

17. **R.17**

Parts of a circle

18. **R.18**

Symmetry

## Congruence and similarity

1. **S.1**

Similar and congruent figures

2. **S.2**

Side lengths and angle measures of congruent figures

3. **S.3**

Congruence statements and corresponding parts

4. **S.4**

Side lengths and angle measures of similar figures

5. **S.5**

Similar figures and indirect measurement

## Constructions

1. **T.1**

Construct the midpoint or perpendicular bisector of a segment

2. **T.2**

Construct an angle bisector

3. **T.3**

Construct a perpendicular line

4. **T.4**

Construct parallel lines

5. **T.5**

Construct an equilateral triangle or regular hexagon

## Pythagoras' theorem

1. **U.1**

Pythagoras' theorem: find the length of the hypotenuse

2. **U.2**

Pythagoras' theorem: find the missing leg length

3. **U.3**

Pythagoras' theorem: word problems

4. **U.4**

Converse of Pythagoras' theorem: is it a right triangle?

## Three-dimensional figures

1. **V.1**

Bases of three-dimensional figures

2. **V.2**

Nets of three-dimensional figures

3. **V.3**

Front, side and top view

## Geometric measurement

1. **W.1**

Perimeter

2. **W.2**

Area of rectangles and parallelograms

3. **W.3**

Area of triangles

4. **W.4**

Area and perimeter: word problems

5. **W.5**  
Circles: calculate area, circumference, radius and diameter
6. **W.6**  
Circles: word problems
7. **W.7**  
Semicircles: calculate area, perimeter, radius and diameter
8. **W.8**  
Quarter circles: calculate area, perimeter and radius
9. **W.9**  
Area of compound figures with triangles, semicircles and quarter circles
10. **W.10**  
Area between two shapes
11. **W.11**  
Perimeter, area and volume: changes in scale

## Data and graphs

1. **X.1**  
Interpret tables
2. **X.2**  
Interpret line plots
3. **X.3**  
Create line plots
4. **X.4**  
Interpret stem-and-leaf plots
5. **X.5**  
Create stem-and-leaf plots
6. **X.6**  
Interpret bar graphs
7. **X.7**  
Create bar graphs
8. **X.8**  
Interpret histograms
9. **X.9**  
Create histograms
10. **X.10**  
Create frequency charts
11. **X.11**  
Interpret line graphs
12. **X.12**



Create line graphs

## Statistics

1. **Y.1**

Calculate mean, median, mode and range

2. **Y.2**

Interpret charts to find mean, median, mode and range

3. **Y.3**

Mean, median, mode and range: find the missing number

4. **Y.4**

Changes in mean, median, mode and range

## Probability

1. **Z.1**

Probability of simple events

2. **Z.2**

Probability of opposite, mutually exclusive and overlapping events

3. **Z.3**

Experimental probability

4. **Z.4**

Make predictions

5. **Z.5**

Compound events: find the number of outcomes

6. **Z.6**

Counting principle

# Class 8<sup>th</sup> English Syllabus

## Reading strategies

### Main idea

1. **A.1**  
Determine the main idea of a passage

### Theme

1. **B.1**  
Match the quotations with their themes
2. **B.2**  
Determine the themes of short stories

### Author's purpose and tone

1. **C.1**  
Identify author's purpose
2. **C.2**  
Which sentence is more formal?
3. **C.3**  
Compare passages for tone

### Text structure

1. **D.1**  
Compare and contrast in informational texts
2. **D.2**  
Match causes and effects in informational texts
3. **D.3**  
Match problems with their solutions
4. **D.4**  
Identify text structures

### Literary devices

1. **E.1**  
Interpret figures of speech
2. **E.2**  
Classify figures of speech
3. **E.3**  
Analyse the effects of figures of speech on meaning and tone

### Analysing literature

1. **F.1**

Analyse short stories

## Analysing informational texts

1. **G.1**  
Read and understand informational passages
2. **G.2**  
Trace an argument

## Comparing texts

1. **H.1**  
Compare two texts with different genres

## Visual elements

1. **I.1**  
Compare illustrations of literary and historical subjects

## Writing strategies

### Organising writing

1. **J.1**  
Order topics from broadest to narrowest
2. **J.2**  
Organise information by main idea
3. **J.3**  
Transitions with conjunctive adverbs

### Developing and supporting arguments

1. **K.1**  
Distinguish facts from opinions
2. **K.2**  
Choose evidence to support a claim
3. **K.3**  
Identify supporting details in informational texts
4. **K.4**  
Identify supporting details in literary texts
5. **K.5**  
Identify counterclaims

## Creative techniques

1. **L.1**  
Use personification

## Active and passive voice

1. **M.1**  
Identify active and passive voice
2. **M.2**  
Rewrite the sentence in active voice

## Editing and revising

1. **N.1**  
Use parallel structure
2. **N.2**  
Remove redundant words or phrases
3. **N.3**  
Use the correct frequently confused word
4. **N.4**  
Correct errors with frequently confused words
5. **N.5**  
Suggest appropriate revisions

## Research skills

1. **O.1**  
Identify plagiarism

# Vocabulary

## Prefixes and suffixes

1. **P.1**  
Words with pre-
2. **P.2**  
Words with re-
3. **P.3**  
Words with sub-
4. **P.4**  
Words with mis-
5. **P.5**  
Words with un-, dis-, in-, im- and non-
6. **P.6**  
Words with -ful
7. **P.7**  
Words with -less
8. **P.8**

Words with -able and -ible

## Greek and Latin roots

1. **Q.1**

Use Greek and Latin roots as clues to the meanings of words

2. **Q.2**

Use words as clues to the meanings of Greek and Latin roots

3. **Q.3**

Determine the meanings of Greek and Latin roots

4. **Q.4**

Determine the meanings of words with Greek and Latin roots

## Synonyms and antonyms

1. **R.1**

Choose the synonym

2. **R.2**

Choose the antonym

## Word choice and usage

1. **S.1**

Describe the difference between related words

2. **S.2**

Positive and negative connotation

## Homophones

1. **T.1**

Use the correct homophone

2. **T.2**

Which definition matches the sentence?

3. **T.3**

Which sentence matches the definition?

## Analogies

1. **U.1**

Analogies

2. **U.2**

Analogies: challenge

## Context clues

1. **V.1**

Find words using context

2. **V.2**

Determine the meaning of words using synonyms in context

3. **V.3**

Determine the meaning of words using antonyms in context

4. **V.4**

Use context to identify the meaning of a word

## Domain-specific vocabulary

1. **W.1**

Determine the meaning of domain-specific words with pictures

## Reference skills

1. **X.1**

Alphabetical order

2. **X.2**

Use guide words

3. **X.3**

Use dictionary entries

4. **X.4**

Use dictionary definitions

5. **X.5**

Use thesaurus entries

## Grammar and mechanics

### Sentences, fragments and run-ons

1. **Y.1**

Is the sentence declarative, interrogative, imperative or exclamatory?

2. **Y.2**

Identify the complete subject or complete predicate of a sentence

3. **Y.3**

Identify the simple subject or simple predicate of a sentence

4. **Y.4**

Identify the compound subject or compound predicate of a sentence

5. **Y.5**

Is it a complete sentence or a fragment?

6. **Y.6**

Is it a complete sentence or a run-on?

7. **Y.7**

Is it a complete sentence, a fragment or a run-on?

### Phrases and clauses

1. **Z.1**

Is it a phrase or a clause?

2. **Z.2**

Identify appositives and appositive phrases

3. **Z.3**

Identify dependent and independent clauses

4. **Z.4**

Is the sentence simple, compound, complex or compound-complex?

5. **Z.5**

Combine sentences using relative clauses

## Nouns

1. **AA.1**

Form and use plurals: review

2. **AA.2**

Form and use plurals of compound nouns

3. **AA.3**

Identify plurals, singular possessives and plural possessives

4. **AA.4**

Form the singular or plural possessive

5. **AA.5**

Identify and correct errors with plural and possessive nouns

6. **AA.6**

Identify and correct errors with compound and joint possession

## Pronouns and antecedents

1. **BB.1**

Identify pronouns and their antecedents

2. **BB.2**

Use the pronoun that agrees with the antecedent

3. **BB.3**

Correct inappropriate shifts in pronoun number and person

4. **BB.4**

Identify vague pronoun references

5. **BB.5**

Identify all of the possible antecedents

## Pronoun types

1. **CC.1**

Choose between subject and object pronouns

2. **CC.2**

Compound subjects and objects with 'I' and 'me'

3. **CC.3**

Compound subjects and objects with pronouns

4. **CC.4**

Choose between personal and reflexive pronouns

5. **CC.5**

Use reflexive pronouns

6. **CC.6**

Is the pronoun reflexive or intensive?

7. **CC.7**

Use relative pronouns: who and whom

8. **CC.8**

Use relative pronouns: who, whom, whose, which and that

## Verb types

1. **DD.1**

Identify transitive and intransitive verbs

2. **DD.2**

Identify linking verbs, predicate adjectives and predicate nouns

## Subject-verb agreement

1. **EE.1**

Correct errors with subject-verb agreement

2. **EE.2**

Correct errors with indefinite pronoun-verb agreement

3. **EE.3**

Use the correct verb – with compound subjects

## Verb tense

1. **FF.1**

Irregular past tense: review

2. **FF.2**

Simple past, present and future tense: review

3. **FF.3**

Identify and correct inappropriate shifts in verb tense

4. **FF.4**

Form the progressive verb tenses

5. **FF.5**

Form the perfect verb tenses

6. **FF.6**

Identify participles and what they modify



7. **FF.7**

Identify gerunds and their functions

8. **FF.8**

Identify infinitives and infinitive phrases

## Adjectives and adverbs

1. **GG.1**

Identify adjectives

2. **GG.2**

Order adjectives

3. **GG.3**

Identify adverbs

4. **GG.4**

Choose between adjectives and adverbs

5. **GG.5**

Is the word an adjective or adverb?

6. **GG.6**

Form and use comparative and superlative adjectives

7. **GG.7**

Good, better, best, bad, worse and worst

8. **GG.8**

Form and use comparative and superlative adverbs

9. **GG.9**

Well, better, best, badly, worse and worst

## Prepositions

1. **HH.1**

Identify prepositional phrases

## Direct and indirect objects

1. **II.1**

Is it a direct object or an indirect object?

## Conjunctions

1. **JJ.1**

Use the correct pair of correlative conjunctions

## Misplaced modifiers

1. **KK.1**

Misplaced modifiers with pictures

2. **KK.2**

Select the misplaced or dangling modifier

3. **KK.3**

Are the modifiers used correctly?

## Restrictive and non-restrictive elements

1. **LL.1**

Commas with non-restrictive elements

## Commas

1. **MM.1**

Commas with compound and complex sentences

2. **MM.2**

Commas with direct addresses, introductory words, interjections and interrupters

3. **MM.3**

Commas with coordinate adjectives

## Semicolons, colons and commas

1. **NN.1**

Use semicolons and commas to separate clauses

2. **NN.2**

Use semicolons, colons and commas with lists

## Dashes, hyphens and ellipses

1. **OO.1**

Use dashes

2. **OO.2**

Use hyphens in compound adjectives

3. **OO.3**

Decide whether ellipses are used appropriately

## Capitalisation

1. **PP.1**

Correct capitalisation errors

2. **PP.2**

Capitalising titles

## Formatting

1. **QQ.1**

Formatting titles

2. **QQ.2**

Formatting and capitalising titles: review

## Class 8<sup>th</sup> Maths Syllabus

### Number theory

1. **A.1**

Factors

2. **A.2**

Divisibility rules

3. **A.3**

Prime or composite

4. **A.4**

Prime factorisation

5. **A.5**

Highest common factor

6. **A.6**

Lowest common multiple

7. **A.7**

HCF and LCM: word problems

8. **A.8**

Classify numbers

### Integers

1. **B.1**

Integers on number lines

2. **B.2**

Graph integers on horizontal and vertical number lines

3. **B.3**

Compare and order integers

### Operations with integers

1. **C.1**

Integer addition and subtraction rules

2. **C.2**

Add and subtract integers using counters

3. **C.3**

Add and subtract integers

4. **C.4**

Add and subtract three or more integers

5. **C.5**

Add and subtract integers: word problems

6. **C.6**

Integer multiplication and division rules

7. **C.7**  
Multiply and divide integers
8. **C.8**  
Evaluate numerical expressions involving integers

## Rational numbers

1. **D.1**  
Identify rational and irrational numbers
2. **D.2**  
Write fractions in lowest terms
3. **D.3**  
Lowest common denominator
4. **D.4**  
Round decimals and mixed numbers
5. **D.5**  
Convert between decimals and fractions or mixed numbers
6. **D.6**  
Compare rational numbers
7. **D.7**  
Put rational numbers in order

## Operations with rational numbers

1. **E.1**  
Reciprocals and multiplicative inverses
2. **E.2**  
Add and subtract rational numbers
3. **E.3**  
Add and subtract rational numbers: word problems
4. **E.4**  
Apply addition and subtraction rules
5. **E.5**  
Multiply and divide rational numbers
6. **E.6**  
Multiply and divide rational numbers: word problems
7. **E.7**  
Apply multiplication and division rules
8. **E.8**  
Apply addition, subtraction, multiplication and division rules
9. **E.9**  
Evaluate numerical expressions involving rational numbers

## Exponents and roots

1. **F.1**  
Understanding exponents
2. **F.2**  
Evaluate exponents
3. **F.3**  
Solve equations with variable exponents
4. **F.4**  
Exponents with negative bases
5. **F.5**  
Exponents with decimal and fractional bases
6. **F.6**  
Understanding negative exponents
7. **F.7**  
Evaluate negative exponents
8. **F.8**  
Multiplication with exponents
9. **F.9**  
Division with exponents
10. **F.10**  
Multiplication and division with exponents
11. **F.11**  
Power rule
12. **F.12**  
Evaluate expressions using properties of exponents
13. **F.13**  
Identify equivalent expressions involving exponents
14. **F.14**  
Square roots of perfect squares
15. **F.15**  
Positive and negative square roots
16. **F.16**  
Estimate positive and negative square roots
17. **F.17**  
Relationship between squares and square roots
18. **F.18**  
Solve equations involving squares and square roots
19. **F.19**

Cube roots of perfect cubes

20. **F.20**

Estimate cube roots

21. **F.21**

Solve equations involving cubes and cube roots

## Scientific notation

1. **G.1**

Convert between standard and scientific notation

2. **G.2**

Compare numbers written in scientific notation

3. **G.3**

Multiply numbers written in scientific notation

4. **G.4**

Divide numbers written in scientific notation

## Ratios, rates and proportions

1. **H.1**

Understanding ratios

2. **H.2**

Identify equivalent ratios

3. **H.3**

Write an equivalent ratio

4. **H.4**

Equivalent ratios: word problems

5. **H.5**

Unit rates

6. **H.6**

Compare ratios: word problems

7. **H.7**

Solve proportions: word problems

8. **H.8**

Do the ratios form a proportion?

9. **H.9**

Do the ratios form a proportion: word problems

10. **H.10**

Solve proportions

11. **H.11**

Estimate population size using proportions

12. **H.12**

Scale drawings: word problems

13. **H.13**

Rate of change

14. **H.14**

Constant rate of change

## Proportional relationships

1. **I.1**

Find the constant of proportionality from a table

2. **I.2**

Write equations for proportional relationships from tables

3. **I.3**

Identify proportional relationships by graphing

4. **I.4**

Find the constant of proportionality from a graph

5. **I.5**

Write equations for proportional relationships from graphs

6. **I.6**

Identify proportional relationships

7. **I.7**

Graph proportional relationships

8. **I.8**

Interpret graphs of proportional relationships

9. **I.9**

Write and solve equations for proportional relationships

## Percents

1. **J.1**

Convert between percents, fractions and decimals

2. **J.2**

Compare percents to fractions and decimals

3. **J.3**

Find what percent one number is of another

4. **J.4**

Find what percent one number is of another: word problems

5. **J.5**

Estimate percents of numbers

6. **J.6**

Percents of numbers and money amounts

7. **J.7**

Percents of numbers: word problems

8. **J.8**

Compare percents of numbers

9. **J.9**

Solve percent equations

10. **J.10**

Percent of change

11. **J.11**

Percent of change: word problems

## Consumer maths

1. **K.1**

Price lists

2. **K.2**

Unit prices

3. **K.3**

Unit prices: find the total price

4. **K.4**

Percent of a number: VAT, discount and more

5. **K.5**

Find the percent: discount and mark-up

6. **K.6**

Sale prices: find the original price

7. **K.7**

Multi-step problems with percents

8. **K.8**

Estimate tips

9. **K.9**

Simple interest

10. **K.10**

Compound interest

## Units of measurement

1. **L.1**

Convert rates and measurements: metric units

2. **L.2**

Metric mixed units

3. **L.3**

Convert square and cubic units of length



4. **L.4**

Convert between cubic metres and litres

5. **L.5**

Precision

## Problem solving

1. **M.1**

Multi-step word problems

2. **M.2**

Guess-and-check word problems

3. **M.3**

Use Venn diagrams to solve problems

4. **M.4**

Elapsed time word problems

## Coordinate plane

1. **N.1**

Points on a coordinate plane

2. **N.2**

Quadrants and axes

3. **N.3**

Follow directions on a coordinate plane

## Two-dimensional figures

1. **O.1**

Identify and classify polygons

2. **O.2**

Classify triangles

3. **O.3**

Identify trapeziums

4. **O.4**

Classify quadrilaterals

5. **O.5**

Graph triangles and quadrilaterals

6. **O.6**

Properties of parallelograms

7. **O.7**

Properties of rhombuses

8. **O.8**

Properties of squares and rectangles

9. **O.9**

Find missing angles in triangles and quadrilaterals

10. **O.10**

Interior angles of polygons

11. **O.11**

Lines, line segments and half lines

12. **O.12**

Identify complementary, supplementary, vertical, adjacent and congruent angles

13. **O.13**

Find measures of complementary, supplementary, vertical and adjacent angles

14. **O.14**

Transversal of parallel lines

15. **O.15**

Find lengths and measures of bisected line segments and angles

16. **O.16**

Parts of a circle

17. **O.17**

Symmetry

18. **O.18**

Count lines of symmetry

19. **O.19**

Draw lines of symmetry

## Congruence and similarity

1. **P.1**

Similar and congruent figures

2. **P.2**

Side lengths and angle measures of congruent figures

3. **P.3**

Congruence statements and corresponding parts

4. **P.4**

Congruent triangles: SSS, SAS and ASA

5. **P.5**

Side lengths and angle measures of similar figures

## Constructions

1. **Q.1**

Construct the midpoint or perpendicular bisector of a segment

2. **Q.2**

Construct an angle bisector

3. **Q.3**

Construct a congruent angle

4. **Q.4**

Construct a perpendicular line

5. **Q.5**

Construct parallel lines

6. **Q.6**

Construct an equilateral triangle or regular hexagon

## Pythagoras' theorem

1. **R.1**

Pythagoras' theorem: find the length of the hypotenuse

2. **R.2**

Pythagoras' theorem: find the missing leg length

3. **R.3**

Pythagoras' theorem: find the perimeter

4. **R.4**

Pythagoras' theorem: word problems

5. **R.5**

Converse of Pythagoras' theorem: is it a right triangle?

## Three-dimensional figures

1. **S.1**

Parts of three-dimensional figures

2. **S.2**

Nets of three-dimensional figures

3. **S.3**

Front, side and top view

4. **S.4**

Base plans

5. **S.5**

Similar solids

## Geometric measurement

1. **T.1**

Perimeter

2. **T.2**

Area

3. **T.3**

Area between two shapes

4. **T.4**

Area and perimeter: word problems

5. **T.5**  
Circles, semicircles and quarter circles
6. **T.6**  
Circles: word problems
7. **T.7**  
Volume of prisms and cylinders
8. **T.8**  
Surface area of prisms and cylinders
9. **T.9**  
Volume and surface area of similar solids
10. **T.10**  
Perimeter, area and volume: changes in scale

## Number sequences

1. **U.1**  
Identify arithmetic and geometric sequences
2. **U.2**  
Arithmetic sequences
3. **U.3**  
Geometric sequences
4. **U.4**  
Number sequences: mixed review
5. **U.5**  
Number sequences: word problems
6. **U.6**  
Evaluate variable expressions for number sequences
7. **U.7**  
Write variable expressions for arithmetic sequences

## Expressions and properties

1. **V.1**  
Write variable expressions
2. **V.2**  
Write variable expressions from diagrams
3. **V.3**  
Write variable expressions: word problems
4. **V.4**  
Evaluate one-variable expressions
5. **V.5**

Evaluate multi-variable expressions

6. **V.6**

Evaluate absolute value expressions

7. **V.7**

Evaluate radical expressions

8. **V.8**

Evaluate rational expressions

9. **V.9**

Identify terms and coefficients

10. **V.10**

Sort factors of expressions

11. **V.11**

Properties of addition and multiplication

12. **V.12**

Multiply using the distributive property

13. **V.13**

Simplify variable expressions using properties

14. **V.14**

Add and subtract like terms

15. **V.15**

Add, subtract and multiply linear expressions

16. **V.16**

Factors of linear expressions

17. **V.17**

Identify equivalent linear expressions

## One-variable equations

1. **W.1**

Which  $x$  satisfies an equation?

2. **W.2**

Write an equation from words

3. **W.3**

Model and solve equations using algebra tiles

4. **W.4**

Write and solve equations that represent diagrams

5. **W.5**

Properties of equality

6. **W.6**

Solve one-step equations

7. **W.7**

Solve two-step equations

8. **W.8**

Solve multi-step equations

9. **W.9**

Solve equations involving like terms

10. **W.10**

Solve equations: complete the solution

11. **W.11**

Solve equations: word problems

## Monomials and polynomials

1. **X.1**

Identify monomials

2. **X.2**

Model polynomials with algebra tiles

3. **X.3**

Add and subtract polynomials using algebra tiles

4. **X.4**

Add and subtract polynomials

5. **X.5**

Add polynomials to find perimeter

6. **X.6**

Multiply monomials

7. **X.7**

Divide monomials

8. **X.8**

Multiply and divide monomials

9. **X.9**

Powers of monomials

10. **X.10**

Square and cube roots of monomials

11. **X.11**

Multiply polynomials using algebra tiles

12. **X.12**

Multiply polynomials

13. **X.13**

Multiply polynomials to find area

## Factorising

1. **Y.1**  
HCF of monomials
2. **Y.2**  
Factorise out a monomial
3. **Y.3**  
Factorise quadratics with leading coefficient 1
4. **Y.4**  
Factorise quadratics with other leading coefficients
5. **Y.5**  
Factorise quadratics: special cases
6. **Y.6**  
Factorise quadratics using algebra tiles
7. **Y.7**  
Factorise by grouping
8. **Y.8**  
Factorise polynomials

## Data and graphs

1. **Z.1**  
Interpret tables
2. **Z.2**  
Interpret bar graphs
3. **Z.3**  
Create bar graphs
4. **Z.4**  
Interpret line graphs
5. **Z.5**  
Create line graphs
6. **Z.6**  
Interpret line plots
7. **Z.7**  
Create line plots
8. **Z.8**  
Interpret stem-and-leaf plots
9. **Z.9**  
Create stem-and-leaf plots
10. **Z.10**  
Interpret histograms
11. **Z.11**

Create histograms

12. **Z.12**

Create frequency charts

13. **Z.13**

Interpret pie charts

14. **Z.14**

Pie charts and central angles

15. **Z.15**

Choose the best type of graph

## Statistics

1. **AA.1**

Calculate mean, median, mode and range

2. **AA.2**

Interpret charts to find mean, median, mode and range

3. **AA.3**

Mean, median, mode and range: find the missing number

4. **AA.4**

Changes in mean, median, mode and range

## Probability

1. **BB.1**

Probability of simple events

2. **BB.2**

Probability of opposite, mutually exclusive and overlapping events

3. **BB.3**

Experimental probability

4. **BB.4**

Make predictions

5. **BB.5**

Compound events: find the number of outcomes

6. **BB.6**

Counting principle