Year 5 Mathematics Overview

Autumn Term 1	Autumn Term 2	
Number	**Number**	Assessments
Crystal Maze	Place Value	Addition and Subtraction	Multiplication and Division	Fractions	

Spring Term 1	Spring Term 2	
Number	**Number**	**Measurement**	Assessments
Multiplication and Division	Fractions	Decimals and Percentages	Perimeter and Area	Statistics	

Summer Term 1	Summer Term 2	
Geometry	**Number**	**Number**	**Measurement**	Assessments
Shape	Position and Direction	Negative Numbers	Decimals	Converting Units	

Legend:
- Number & Place Value
- Calculation
- Geometry
- Statistics
- Algebra
- F.D.P
- Others
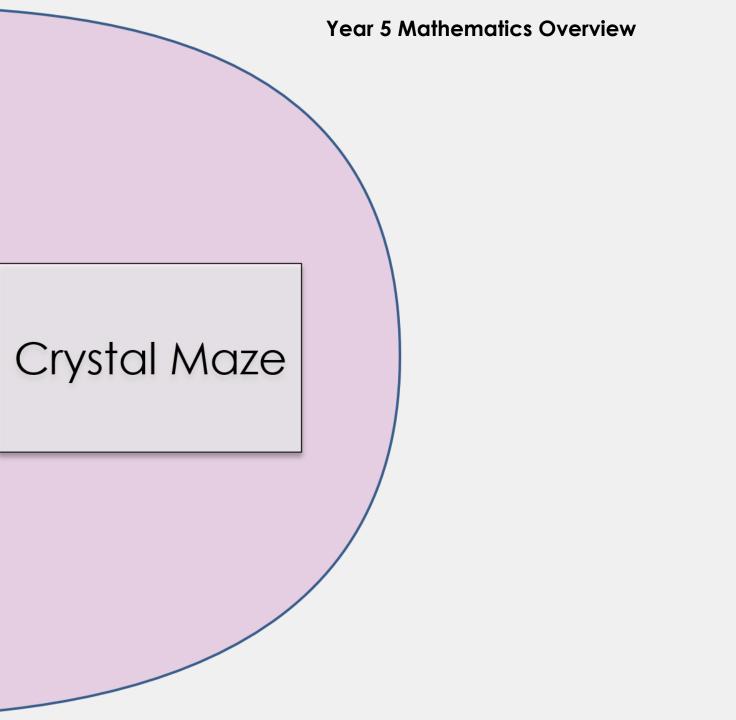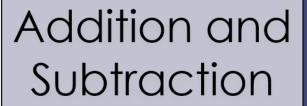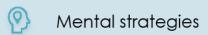
Crystal Maze

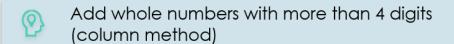# Year 5 Mathematics Overview

Place Value

- Numbers to 10,000
- Rounding to 10, 100 and 1,000
- Numbers to 100,000
- Compare and order numbers to 100,000
- Round numbers within 100,000
- Numbers to a million
- Counting in 10s, 100s, 1,000s, 10,000s and 100,000s
- Compare and order numbers to one million
- Round numbers to one million
- Negative numbers
- Roman numerals

Year 5 Mathematics Overview

Addition and Subtraction

- Mental strategies
- Add whole numbers with more than 4 digits (column method)
- Subtract whole numbers with more than 4 digits (column method)
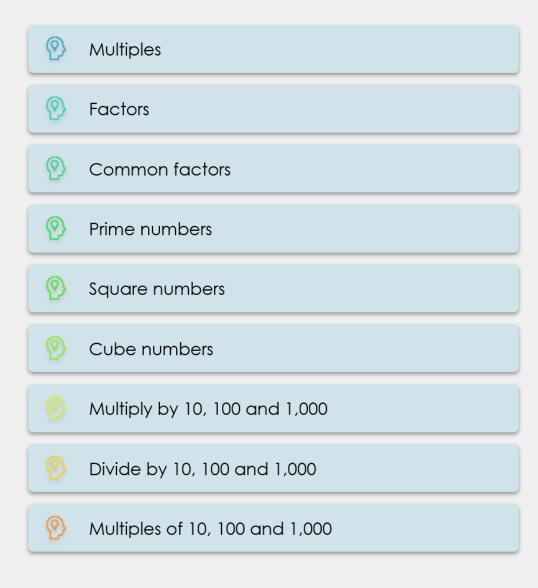- Round to estimate and approximate
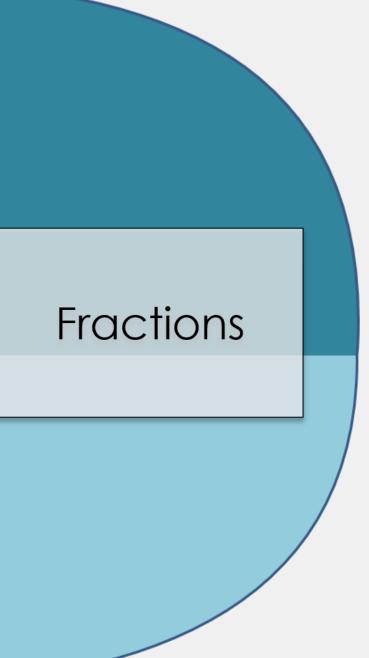- Inverse operations (addition and subtraction)
- Multi-step addition and subtraction
- Compare calculations
- Find missing numbers

Year 5 Mathematics Overview

Multiplication and Division

- Multiples
- Factors
- Common factors
- Prime numbers
- Square numbers
- Cube numbers
- Multiply by 10, 100 and 1,000
- Divide by 10, 100 and 1,000
- Multiples of 10, 100 and 1,000
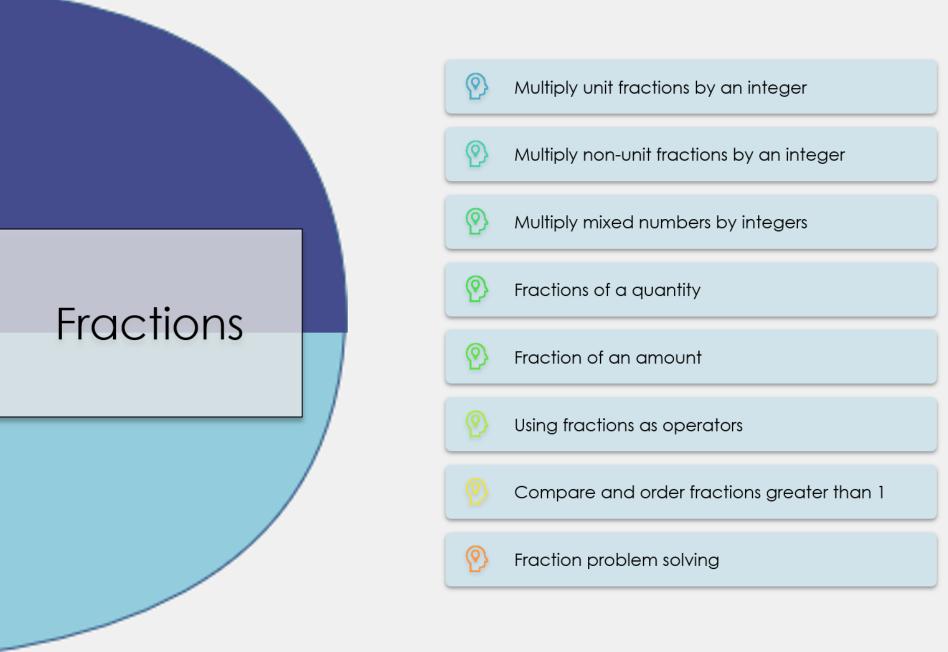
Year 5 Mathematics Overview

Fractions

- Equivalent fractions
- Improper fractions to mixed numbers
- Mixed numbers to improper fractions
- Number sequences
- Compare and order fractions less than 1
- Compare and order fractions greater than 1
- Add and subtract fractions
- Add fractions within 1
- Add 3 or more fractions
- Add fractions
- Add mixed numbers
- Subtract fractions
- Subtract mixed numbers
- Subtraction - breaking the whole
- Subtract 2 mixed numbers

Year 5 Mathematics Overview

Multiplication and Division

- Mental multiplication and division
- Multiply 4-digits by 1-digit
- Multiply 2-digits (area model)
- Multiply 2-digits by 2-digits
- Multiply 3-digits by 2-digits
- Multiply 4-digits by 2-digits
- Divide 4-digits by 1-digit
- Divide with remainders
- Problem solving involving a combination of the four operations

Year 5 Mathematics Overview

Fractions

- Multiply unit fractions by an integer
- Multiply non-unit fractions by an integer
- Multiply mixed numbers by integers
- Fractions of a quantity
- Fraction of an amount
- Using fractions as operators
- Compare and order fractions greater than 1
- Fraction problem solving

Decimals and Percentages

- Decimals up to 2 d.p.
- Decimals as fractions
- Understand thousandths
- Thousandths as decimals
- Rounding decimals
- Order and compare decimals
- Understand percentages
- Percentages as fractions and decimals
- Equivalent F.D.P

Year 5 Mathematics Overview

Perimeter and Area

- Measure perimeter
- Calculate perimeter
- Area of rectangles
- Area of compound shapes
- Area of irregular shapes

Year 5 Mathematics Overview

Statistics

- Read and interpret line graphs
- Draw line graphs
- Use line graphs to solve problems
- Read and interpret tables
- Two-way tables
- Timetables

Year 5 Mathematics Overview

Shape

- Identify 2D and 3D shapes
- Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles
- Measuring angles in degrees
- Measuring with a protractor
- Drawing lines and angles accurately
- Calculating angles on a straight line
- Calculating angles around a point
- Calculating lengths and angles in shapes
- Regular and irregular polygons
- Reasoning about 3-D shapes

Year 5 Mathematics Overview

Negative Numbers

Interpret negative numbers in context

Count forwards and backwards with positive and negative whole numbers including through zero

Compare and order negative numbers

Find the difference between two negative numbers

Year 5 Mathematics Overview

Decimals

- Adding decimals within 1
- Subtracting decimals within 1
- Complements to 1
- Adding decimals - crossing the whole
- Adding and subtracting decimals with the same number of decimal places problem solving
- Adding and subtracting decimals with a different number of decimal places problem solving
- Adding and subtracting wholes and decimals
- Decimal sequences
- Multiplying decimals by 10, 100 and 1,000
- Dividing decimals by 10, 100 and 1,000