

Unit 3.1 - Numbers and Place Value up to 1000

HOURS	TOPIC	KEY CONCEPTS	STRAND
2	Numbers And Place Value	read and write numbers up to 1000 in numerals and in words	Number
3	Numbers And Place Value	recognise the place value of each digit in a three-digit number (hundreds, tens, ones)	Number
2	Numbers And Place Value	compare and order numbers up to 1000	Number
2	Numbers And Place Value	identify, represent and estimate numbers using different representations	Number
4	Numbers And Place Value	solve number problems and practical problems involving these ideas	Number



Unit 3.2 - Adding and Subtracting with 3-digit Numbers

HOURS	TOPIC	KEY CONCEPTS	STRAND
6	Addition And Subtraction	add and subtract numbers mentally, including a three-digit number and ones; a three-digit number and tens; a three-digit number and hundreds	Number
9	Addition And Subtraction	add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction	Number



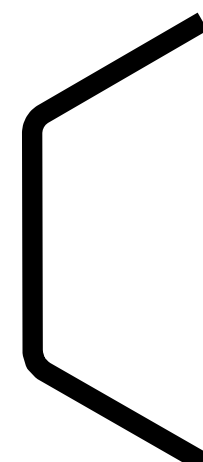
Unit 3.3 - Calculating with Money and Measures

HOURS	TOPIC	KEY CONCEPTS	STRAND
4	Distance, Capacity, Time And Money	add and subtract amounts of money to give change, using both £ and p in practical contexts	Geometry And Measures
8	Distance, Capacity, Time And Money	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)	Geometry And Measures
3	Distance, Capacity, Time And Money	measure the perimeter of simple 2-D shapes	Geometry And Measures



Unit 3.4 - Adding, Subtracting and Comparing Fractions

HOURS	TOPIC	KEY CONCEPTS	STRAND
6	Numbers And Place Value	count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number	Number
3	Fractions	count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10	Number
4	Fractions	recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators	Number
4	Fractions	add and subtract fractions with the same denominator within one whole (e.g. $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$)	Number
4	Fractions	compare and order unit fractions, and fractions with the same denominators	Number



Unit 3.5 - Using Time Accurately

HOURS TOPIC

KEY CONCEPTS

STRAND

6 Distance, Capacity, Time And Money

tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks

Geometry And Measures



8 Distance, Capacity, Time And Money

estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight

Geometry And Measures



Unit 3.6 - Quick Recall and Use of Multiplication and Division Facts

HOURS TOPIC

KEY CONCEPTS

STRAND

8 Multiplication And Division

write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods

Number



1 Multiplication And Division

recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables

Number



Unit 3.7 - Interpreting and Presenting Data

HOURS TOPIC

KEY CONCEPTS

STRAND

5 Interpreting Data

interpret and present data using bar charts, pictograms and tables

Probability And Statistics



4 Interpreting Data

solve one-step and two-step questions such as “How many more? and How many fewer” using information presented in scaled bar charts and pictograms and tables

Probability And Statistics



Unit 3.8 - Angles, Lines and Shapes

HOURS TOPIC

KEY CONCEPTS

STRAND

2 Properties Of Shapes

recognise angles as a property of shape or a description of a turn

Geometry And Measures



3 Properties Of Shapes

identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle

Geometry And Measures



4 Properties Of Shapes

identify horizontal and vertical lines and pairs of perpendicular and parallel lines

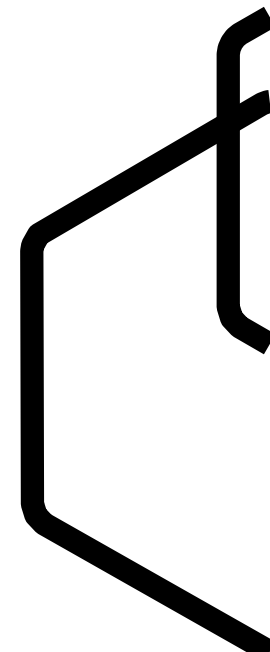
Geometry And Measures



5 Properties Of Shapes

draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them

Geometry And Measures



Unit 3.9 - Calendars and Time

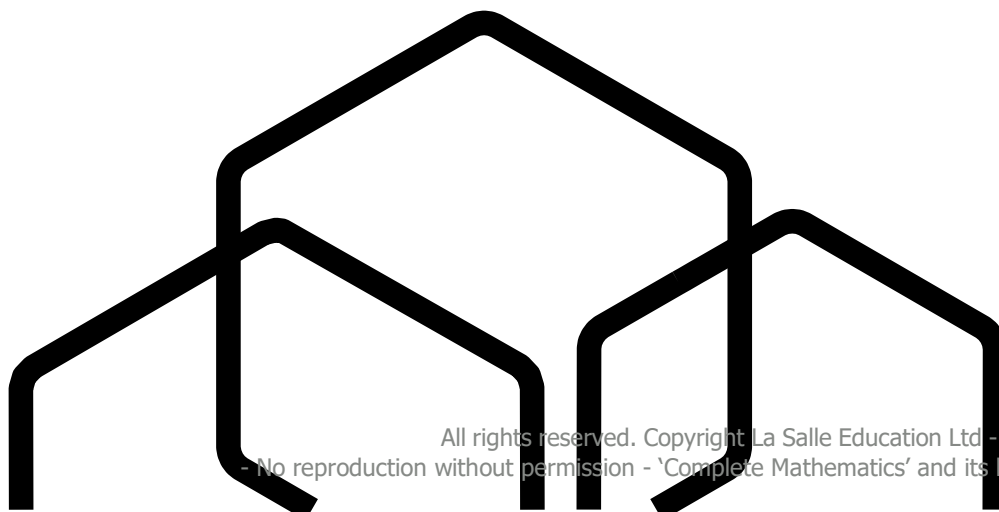
HOURS	TOPIC	KEY CONCEPTS	STRAND	
3	Distance, Capacity, Time And Money	know the number of seconds in a minute and the number of days in each month, year and leap year	Geometry And Measures	
3	Distance, Capacity, Time And Money	compare durations of events, for example to calculate the time taken by particular events or tasks	Geometry And Measures	

Unit 3.10 - Working with the Four Operations

HOURS	TOPIC	KEY CONCEPTS	STRAND	
6	Addition And Subtraction	solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.	Number	
5	Multiplication And Division	solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which n objects are connected to m objects.	Number	
4	Addition And Subtraction	estimate the answer to a calculation and use inverse operations to check answers	Number	

3.11 - Working with Non-Unit Fractions and Small Denominators

HOURS	TOPIC	KEY CONCEPTS	STRAND
5	Fractions	recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators	Number
4	Fractions	recognise and show, using diagrams, equivalent fractions with small denominators	Number
4	Fractions	solve problems that involve all of the above	Number



Unit 4.1 - Larger Numbers, Negative Numbers and Roman Numerals

15 hours



HOURS TOPIC

KEY CONCEPTS

STRAND

2 Number And Place Value

recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)

N1: Numbers and the number system

1 Number And Place Value

find 1000 more or less than a given number

N1: Numbers and the number system

2 Number And Place Value

order and compare numbers beyond 1000

N1: Numbers and the number system

2 Number And Place Value

count backwards through zero to include negative numbers

N1: Numbers and the number system

3 Number And Place Value

read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.

N1: Numbers and the number system

2 Number And Place Value

identify, represent and estimate numbers using different representations

N1: Numbers and the number system

3 Number And Place Value

solve number and practical problems that involve all of the above and with increasingly large positive numbers

N1: Numbers and the number system

Unit 4.2 - Converting Time

12 hours



HOURS TOPIC

KEY CONCEPTS

STRAND

6 Distance, Capacity,
Time And Money

read, write and convert time between analogue and digital 12 and 24-hour clocks

G10: Time

6 Distance, Capacity,
Time And Money

solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.

G10: Time

Unit 4.3 - Times Tables and Formal Methods for Addition and Subtraction

13 hours



HOURS TOPIC

KEY CONCEPTS

STRAND

4 Multiplication And Division

recall multiplication and division facts for multiplication tables up to 12 x 12

N2: Mental methods of calculation

5 Addition And Subtraction

add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate

N3: Written methods of calculation

4 Addition And Subtraction

solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.

N3: Written methods of calculation

Unit 4.4 - Rounding and Arithmetic

13 hours



HOURS TOPIC

KEY CONCEPTS

STRAND

3	Number And Place Value
4	Multiplication And Division
4	Multiplication And Division
2	Addition And Subtraction

round any number to the nearest 10, 100 or 1000

multiply two-digit and three-digit numbers by a one-digit number using formal written layout

solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.

estimate and use inverse operations to check answers to a calculation

N5: Accuracy

N3: Written methods of calculation

N3: Written methods of calculation

N5: Accuracy

Unit 4.5 - Coordinates and Plotting

7 hours



HOURS TOPIC

KEY CONCEPTS

STRAND

5	Position And Direction
2	Position And Direction

describe positions on a 2-D grid as coordinates in the first quadrant plot specified points and draw sides to complete a given polygon.

A6: Algebraic graphs

G2: Construction

Unit 4.6 - Solve Problems using Fractions

19 hours



HOURS TOPIC

KEY CONCEPTS

STRAND

5	Number And Place Value	count in multiples of 6, 7, 9, 25 and 1000
3	Fractions (Including Decimals)	count up and down in hundredths; recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten.
2	Fractions (Including Decimals)	add and subtract fractions with the same denominator
3	Fractions (Including Decimals)	recognise and show, using diagrams, families of common equivalent fractions
6	Fractions (Including Decimals)	solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number

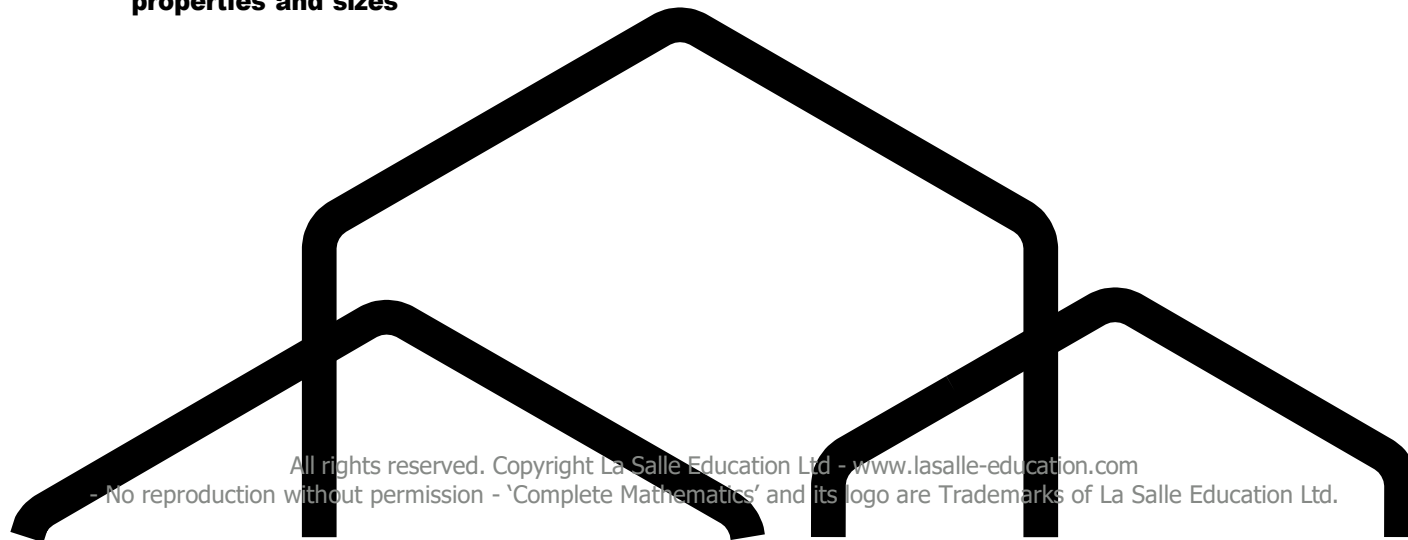
N1: Numbers and the number system
 N7: Fractions and decimals
 N7: Fractions and decimals
 N9: Proportional reasoning
 N7: Fractions and decimals

Unit 4.7 - Translations, Reflections, Angles and Shapes

16 hours



HOURS	TOPIC	KEY CONCEPTS	STRAND
4	Position And Direction	describe movements between positions as translations of a given unit to the left/right and up/down	G3: Transformations
3	Properties Of Shapes	identify acute and obtuse angles and compare and order angles up to two right angles by size	G4: Angles
3	Properties Of Shapes	identify lines of symmetry in 2-D shapes presented in different orientations	G5: Properties of 2D shapes
2	Properties Of Shapes	complete a simple symmetric figure with respect to a specific line of symmetry.	G5: Properties of 2D shapes
4	Properties Of Shapes	compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes	G5: Properties of 2D shapes



Unit 4.8 - Decimals, Rounding and Multiplying or Dividing by 10 and 100

15 hours

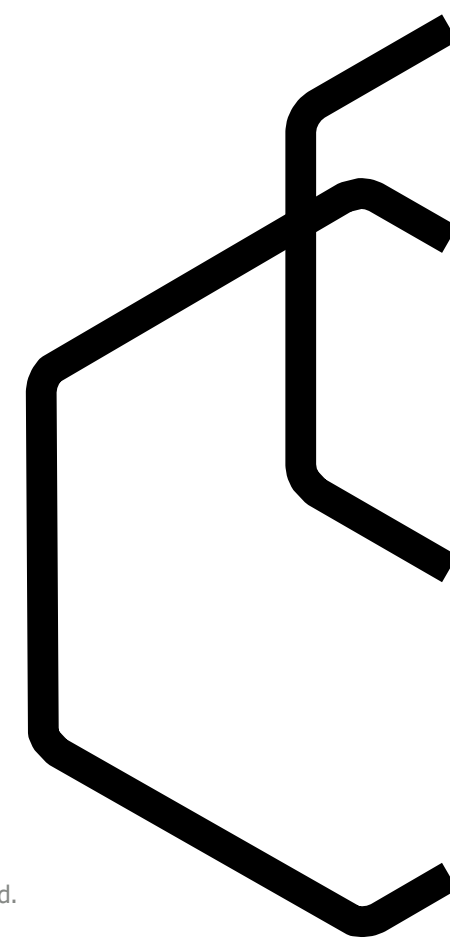


HOURS TOPIC

KEY CONCEPTS

STRAND

3	Fractions (Including Decimals)	recognise and write decimal equivalents of any number of tenths or hundredths	N7: Fractions and decimals
2	Fractions (Including Decimals)	compare numbers with the same number of decimal places up to two decimal places	N7: Fractions and decimals
1	Fractions (Including Decimals)	recognise and write decimal equivalents to $\frac{1}{4}$; $\frac{1}{2}$; $\frac{3}{4}$	N7: Fractions and decimals
2	Fractions (Including Decimals) nearest whole number	round decimals with one decimal place to the	N5: Accuracy
3	Fractions (Including Decimals)	find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as units, tenths and hundredths	N7: Fractions and decimals
4	Fractions (Including Decimals)	solve simple measure and money problems involving fractions and decimals to two decimal places	N7: Fractions and decimals



Unit 4.9 - Interpret and Present Data for Calculating

10 hours

HOURS TOPIC

6 Interpreting Data

KEY CONCEPTS

interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs

STRAND

S1: Statistics

4 Interpreting Data

solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.

S1: Statistics



Unit 4.10 - Perimeter and Area of Rectilinear Shapes

7 hours

HOURS TOPIC

4 Distance, Capacity, Time And Money

KEY CONCEPTS

measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres

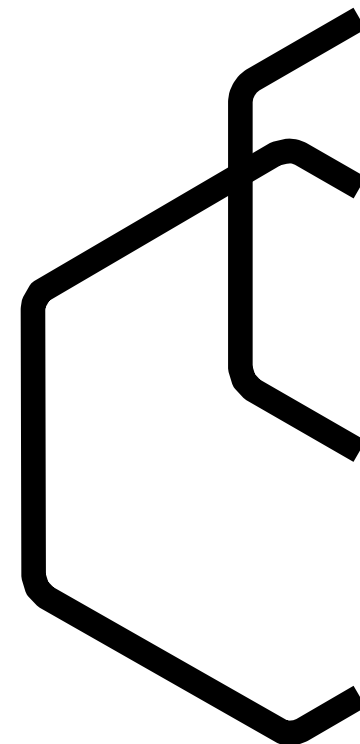
STRAND

G7: Area, perimeter and volume

3 Distance, Capacity, Time And Money

find the area of rectilinear shapes by counting squares

G7: Area, perimeter and volume



4.11 - Mental Calculations

11 hours



HOURS TOPIC

6 Multiplication And Division

KEY CONCEPTS

use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers

STRAND

N2: Mental methods of calculation

5 Multiplication And Division

recognise and use factor pairs and commutativity

N2: Mental methods of calculation in mental calculations

4.12 - Converting Measurements and Money

11 hours



HOURS TOPIC

5 Distance, Capacity, Time And Money

KEY CONCEPTS

Convert between different units of measure (e.g. kilometre to metre; hour to minute)

STRAND

G9: Measures

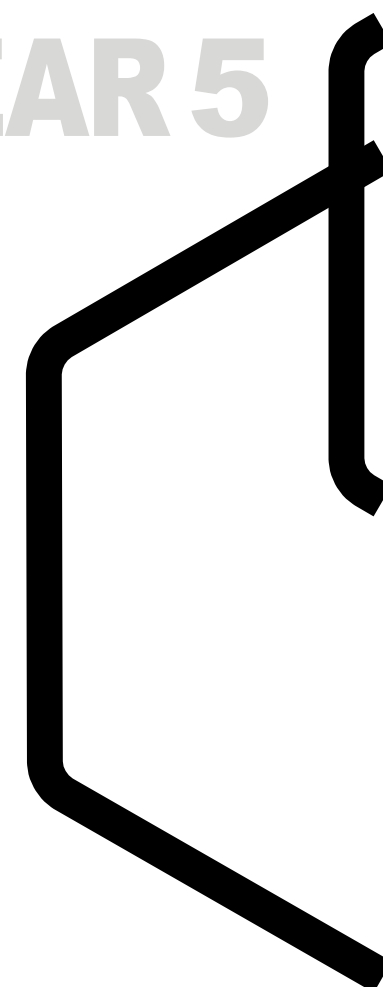
6 Distance, Capacity, Time And Money

estimate, compare and calculate different measures, including money in pounds and pence

G9: Measures

Unit 5.1 - Large and Negative Numbers in Different Formats

HOURS	TOPIC	KEY CONCEPTS	STRAND
4	Numbers And Place Value	read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit	Number
4	Numbers And Place Value	round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000	Number
2	Numbers And Place Value	count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000	Number
4	Numbers And Place Value	interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero	Number
2	Numbers And Place Value	read Roman numerals to 1000 (M) and recognise years written in Roman numerals.	Number
2	Numbers And Place Value	solve number problems and practical problems that involve all of the above	Number



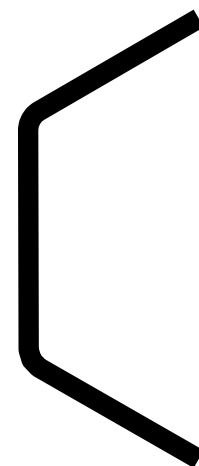
Unit 5.2 - Drawing, Measuring and Estimating Angles

HOURS	TOPIC	KEY CONCEPTS	STRAND
4	Properties Of Shapes	know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles	Geometry And Measures
2	Properties Of Shapes	draw given angles, and measure them in degrees (°)	Geometry And Measures
4	Properties Of Shapes	identify: angles at a point and one whole turn (total 360°), angles at a point on a straight line and $\hat{A}\frac{1}{2}$ a turn (total 180°), other multiples of 90°	Geometry And Measures



Unit 5.3 - Decimals, Equivalence and Rounding

HOURS	TOPIC	KEY CONCEPTS	STRAND
2	Fractions (Including Decimals And Percentages)	read and write decimal numbers as fractions (e.g. 0.71 = $\frac{71}{100}$)	Number
3	Fractions (Including Decimals And Percentages)	recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	Number
3	Fractions (Including Decimals And Percentages)	read, write, order and compare numbers with up to three decimal places	Number
4	Multiplication And Division	multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	Number



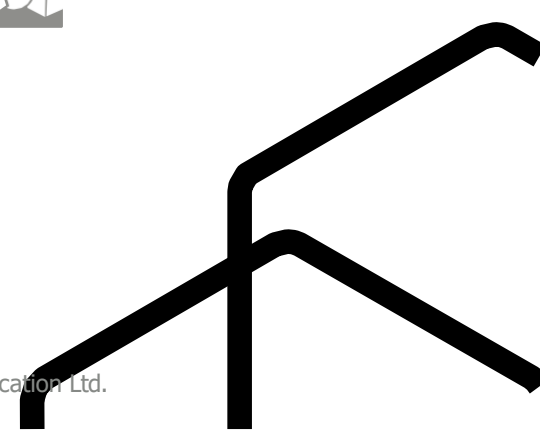
Unit 5.4 - Addition and Subtraction

HOURS	TOPIC	KEY CONCEPTS	STRAND
3	Addition And Subtraction	add and subtract numbers mentally with increasingly large numbers	Number
4	Addition And Subtraction	add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)	Number
4	Addition And Subtraction	solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	Number
3	Fractions (Including Decimals And Percentages)	solve problems involving number up to three decimal places	Number



Unit 5.5 - Reflection and Translation

HOURS	TOPIC	KEY CONCEPTS	STRAND
6	Position And Direction	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.	Geometry And Measures



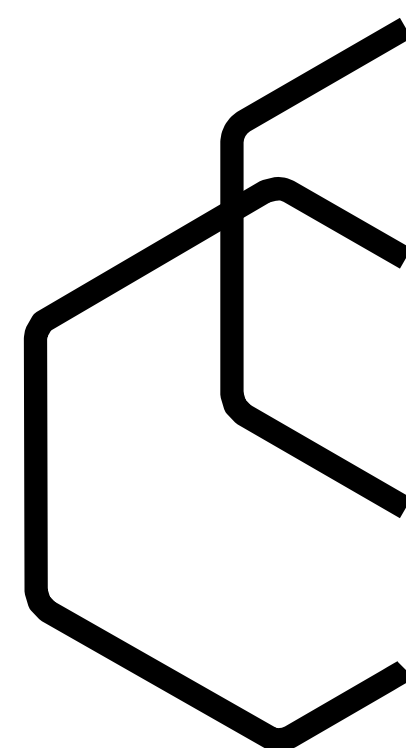
Unit 5.6 - Primes, Factors, Squares and Cubes

HOURS	TOPIC	KEY CONCEPTS	STRAND
5	Multiplication And Division	identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers	Number
3	Multiplication And Division	know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers	Number
2	Multiplication And Division	establish whether a number up to 100 is prime and recall prime numbers up to 19	Number
4	Multiplication And Division	recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³)	Number



Unit 5.7 - Long Multiplication

HOURS	TOPIC	KEY CONCEPTS	STRAND
2	Multiplication And Division	multiply and divide numbers mentally drawing upon known facts	Number
4	Multiplication And Division	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	Number



Unit 5.8 - Solving Problems Using the Four Operations

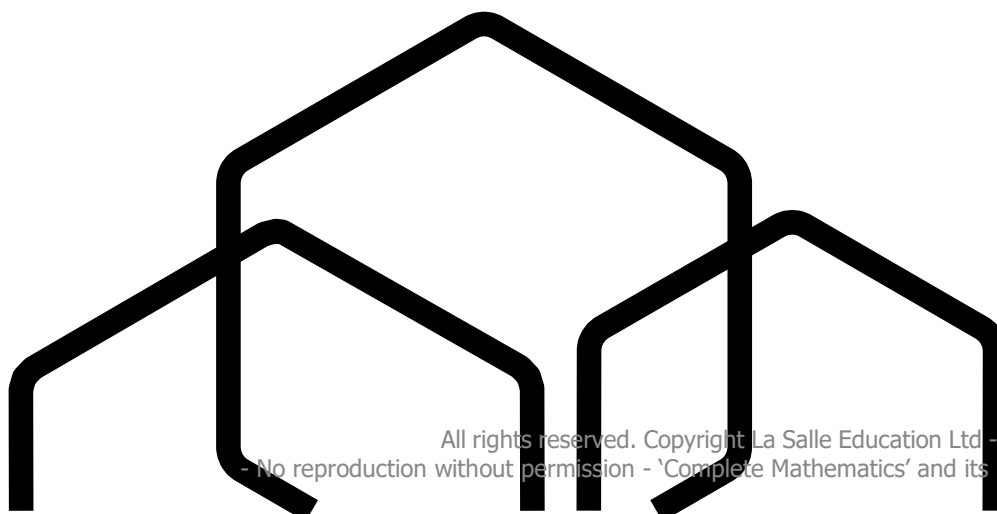
HOURS	TOPIC	KEY CONCEPTS	STRAND	
4	Multiplication And Division	divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context	Number	
3	Multiplication And Division	solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes	Number	
2	Multiplication And Division	solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign	Number	
3	Multiplication And Division	solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates	Number	
3	Addition And Subtraction	use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy	Number	

Unit 5.9 - Using Information from Graphs, Tables and Timetables

HOURS	TOPIC	KEY CONCEPTS	STRAND	
4	Interpreting Data	solve comparison, sum and difference problems using information presented in a line graph	Probability And Statistics	
4	Interpreting Data	complete, read and interpret information in tables, including timetables	Probability And Statistics	

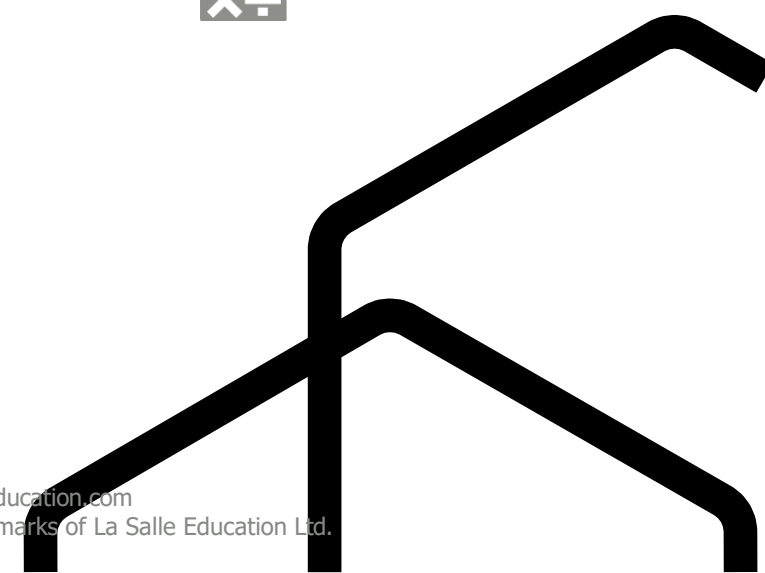
Unit 5.10 - Solving Problems with Measures and Time

HOURS	TOPIC	KEY CONCEPTS	STRAND
4	Space And Time	convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)	Geometry And Measures
2	Space And Time	understand and use equivalences between metric units and common imperial units such as inches, pounds and pints	Geometry And Measures
3	Space And Time	solve problems involving converting between units of time	Geometry And Measures
3	Space And Time	use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation including scaling	Geometry And Measures



Unit 5.11 - Solving Problems with Fractions

HOURS	TOPIC	KEY CONCEPTS	STRAND
3	Fractions (Including Decimals And Percentages)	compare and order fractions whose denominators are all multiples of the same number	Number
4	Fractions (Including Decimals And Percentages)	identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths	Number
4	Fractions (Including Decimals And Percentages)	recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number (e.g. $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1 \frac{1}{5}$)	Number
5	Fractions (Including Decimals And Percentages)	add and subtract fractions with the same denominator and denominators that are multiples of the same number	Number
4	Fractions (Including Decimals And Percentages)	multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	Number



Unit 5.12 - Metric Measurements in Shapes

HOURS	TOPIC	KEY CONCEPTS	STRAND	
4	Space And Time	measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres	Geometry And Measures	
4	Space And Time	calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes	Geometry And Measures	
3	Space And Time	estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water]	Geometry And Measures	

Unit 5.13 - Fractions and their Decimal and Percentage Equivalents

HOURS	TOPIC	KEY CONCEPTS	STRAND	
3	Fractions (Including Decimals And Percentages)	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 hundred, and as a decimal fraction	Number	
3	Fractions (Including Decimals And Percentages)	solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those with a denominator of a multiple of 10 or 25	Number	

Unit 5.14 - Identifying Shapes

HOURS TOPIC

KEY CONCEPTS

STRAND

2 Properties Of Shapes

use the properties of rectangles to deduce related facts and find missing lengths and angles

Geometry And Measures



2 Properties Of Shapes

distinguish between regular and irregular polygons based on reasoning about equal sides and angles.

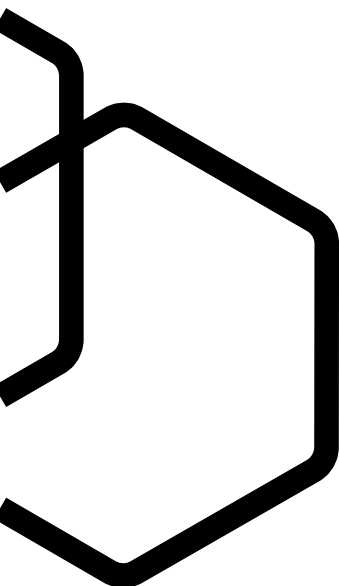
Geometry And Measures



3 Properties Of Shapes

identify 3-D shapes, including cubes and other cuboids, from 2-D representations

Geometry And Measures



Unit 6.1 - Place Value

HOURS	TOPIC	KEY CONCEPTS	STRAND	
3	Number And Place Value	read, write, order and compare numbers up to 10 000 000 and determine the value of each digit	Number	
4	Fractions (Including Decimals And Percentages)	identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places	Number	
3	Number And Place Value	round any whole number to a required degree of accuracy	Number	
4	Number And Place Value	use negative numbers in context, and calculate intervals across zero	Number	

Unit 6.2 - Multiplication and Division

HOURS	TOPIC	KEY CONCEPTS	STRAND	
5	Addition, Subtraction, Multiplication And Division	multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication	Number	
5	Addition, Subtraction, Multiplication And Division	divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context	Number	
5	Addition, Subtraction, Multiplication And Division	divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context	Number	

Unit 6.2 - Multiplication and Division

HOURS	TOPIC	KEY CONCEPTS	STRAND
4	Fractions (Including Decimals And Percentages)	use written division methods in cases where the answer has up to two decimal places	Number



Unit 6.3 - Using Factors, Multiples and Primes to work with Fractions

HOURS	TOPIC	KEY CONCEPTS	STRAND
3	Addition, Subtraction, Multiplication And Division	identify common factors, common multiples and prime numbers	Number
3	Fractions (Including Decimals And Percentages)	compare and order fractions, including fractions >1	Number
4	Fractions (Including Decimals And Percentages)	use common factors to simplify fractions; use common multiples to express fractions in the same denomination	Number
5	Fractions (Including Decimals And Percentages)	add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions	Number



Unit 6.4 - Perimeter, Area and Volume

HOURS	TOPIC	KEY CONCEPTS	STRAND
2	Space And Time	recognise that shapes with the same areas can have different perimeters and vice versa	Geometry And Measures
2	Space And Time	recognise when it is possible to use formulae for area and volume of shapes	Geometry And Measures
4	Space And Time	calculate the area of parallelograms and triangles	Geometry And Measures
4	Space And Time	calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm^3) and cubic metres (m^3), and extending to other units [for example, mm^3 and km^3].	Geometry And Measures



Unit 6.5 - Arithmetical Operations

HOURS	TOPIC	KEY CONCEPTS	STRAND
5	Addition, Subtraction, Multiplication And Division	use their knowledge of the order of operations to carry out calculations involving the four operations	Number
4	Addition, Subtraction, Multiplication And Division	solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	Number
4	Addition, Subtraction, Multiplication And Division	solve problems involving addition, subtraction, multiplication and division	Number



Unit 6.5 - Arithmetical Operations

HOURS	TOPIC	KEY CONCEPTS	STRAND
3	Fractions (Including Decimals And Percentages)	multiply one-digit numbers with up to two decimal places by whole	Number
2	Number And Place Value	solve number and practical problems that involve all of the above.	Number



Unit 6.6 - Translations and Reflections

HOURS	TOPIC	KEY CONCEPTS	STRAND
5	Position And Direction	describe positions on the full coordinate grid (all four quadrants)	Geometry And Measures
5	Position And Direction	draw and translate simple shapes on the coordinate plane, and reflect them in the axes.	Geometry And Measures



Unit 6.7 - Fractions, Decimals and Percentages

HOURS	TOPIC	KEY CONCEPTS	STRAND
4	Fractions (Including Decimals And Percentages)	recall and use equivalences between simple fractions, decimals and percentages, including in different contexts	Number
3	Fractions (Including Decimals And Percentages)	associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8]	Number
3	Fractions (Including Decimals And Percentages)	multiply simple pairs of proper fractions, writing the answer in its simplest form [for example $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$]	Number
3	Fractions (Including Decimals And Percentages)	divide proper fractions by whole numbers [for example, $\frac{1}{3} \div 2 = \frac{1}{6}$]	Number



Unit 6.8 - Number Problems and Equations

HOURS	TOPIC	KEY CONCEPTS	STRAND
2	Expressing Relationships	enumerate possibilities of combinations of two variables	Algebra
3	Expressing Relationships	find pairs of numbers that satisfy an equation with two unknowns	Algebra
3	Expressing Relationships	express missing number problems algebraically	Algebra



Unit 6.9 - Converting Measures

HOURS	TOPIC	KEY CONCEPTS	STRAND	
3	Space And Time	use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places	Geometry And Measures	
3	Space And Time	solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate	Geometry And Measures	
2	Space And Time	convert between miles and kilometres	Geometry And Measures	

6.10 - Accuracy and Proportion

HOURS	TOPIC	KEY CONCEPTS	STRAND	
4	Addition, Subtraction, Multiplication And Division	use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy	Number	
2	Fractions (Including Decimals And Percentages)	solve problems which require answers to be rounded to specified degrees of accuracy	Number	

Unit 6.10 - Accuracy and Proportion

HOURS	TOPIC	KEY CONCEPTS	STRAND	
4	Multiplicative Relationships	solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison	Number	
3	Multiplicative Relationships	solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts	Number	
3	Multiplicative Relationships	solve problems involving unequal sharing and grouping using knowledge of fractions and multiples	Number	

Unit 6.11 - Pie Charts and the Mean

HOURS	TOPIC	KEY CONCEPTS	STRAND	
5	Interpreting Data	interpret and construct pie charts and line graphs and use these to solve problems	Probability And Statistics	
4	Interpreting Data	calculate and interpret the mean as an average	Probability And Statistics	

Unit 6.12 - Formulae and Sequences

HOURS	TOPIC	KEY CONCEPTS	STRAND	
2	Expressing Relationships	use simple formulae	Algebra	
3	Expressing Relationships	generate and describe linear number sequences	Algebra	

Unit 6.13 - Dimensions and Scale

HOURS	TOPIC	KEY CONCEPTS	STRAND	
3	Properties Of Shapes	draw 2-D shapes using given dimensions and angles	Geometry And Measures	
4	Multiplicative Relationships	solve problems involving similar shapes where the scale factor is known or can be found	Number	

Unit 6.14 - Angles, Shapes and Solids

HOURS	TOPIC	KEY CONCEPTS	STRAND	
3	Properties Of Shapes	recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.	Geometry And Measures	
4	Properties Of Shapes	compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons	Geometry And Measures	
3	Properties Of Shapes	illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius	Geometry And Measures	
4	Properties Of Shapes	recognise, describe and build simple 3-D shapes, including making nets	Geometry And Measures	