

YR7

Y7 UNIT 1
Place value
How does the base 10 system work?
What is an integer?
When does multiplication make a number smaller and division make it bigger?

Y7 UNIT 2
Addition and subtraction
How can I select the best strategies to addition and subtraction?
What is a complement?

Y7 UNIT 3
Multiplication and division
How can I select the best strategies to multiply and divide?
What is a highest common factor?
What is a lowest common multiple?
What is meant by equality?

Y7 UNIT 7
Averages
How do I find the median of a set of numbers?

Y7 UNIT 6
Metric conversion
How do I convert between different metric units?

Y7 UNIT 5
Rounding
How do I round to decimal places and significant figures?

Y7 UNIT 4
Directed number
How do vectors show positive and negative numbers on a number line?

Y7 UNIT 8
Directed number
What is a zero pair?

Y7 UNIT 9
Geometry
How do I find the perimeter of a shape?
How do I find a missing angle on a straight line or around a point?

Y7 UNIT 10
Averages
How do I calculate the mean of a set of numbers?

Y7 UNIT 11
Geometry
How do I find the volume of a cuboid?
How do I find the area of a rectangle?

Y7 UNIT 14
Directed Number
How do I add and subtract with directed numbers?
How do I multiply and divide with directed numbers?
Where do we use negative numbers outside the classroom?

Y7 UNIT 13
Order of operations
What is the correct order of operations?
Which operations are commutative?
Which symbols are used to break the order of the operations?

Y7 UNIT 12
Powers and roots
How do I write an integer as a product of its prime factors?
What are exponents and roots?
What are prime and composite numbers?
Why is index notation useful?

Y7 UNIT 15
Algebra
How do I simplify an expression?
How do I substitute numbers into an expression?
What is a variable?
What is an expression?

Y7 UNIT 16
Fractions
How do I add fractions with different denominators?
How do I convert a mixed number to an improper fraction?
How do I find equivalent fractions?
How do I find fraction of amounts?
How do I represent fractions on a number line?
What is a sneaky one?

Y7 UNIT 19
Algebra
Can I set up an algebraic expression?
Can I simplify expressions with constants and variables?
Can I tell the difference between an expression and an equation?

Y7 UNIT 18
Estimation and use of a scientific calculator
Can I convert between units of time using a calculator?
Can I calculate an upper or lower bound given a degree of accuracy?

Y7 UNIT 17
FDP equivalence
Can I find a percentage using a decimal multiplier?
How can I convert a fraction to a decimal?
What does the word percentage mean?
What is a terminating decimal?

YR8

Y8 UNIT 1
Directed number
How do I square a negative number?

Y8 UNIT 2
Substitution
What does it mean to substitute a variable?
Sequences
What is an arithmetic sequence? ?

Y8 UNIT 3
Indices
What is the value of 2^3 ?
Why does $n^0=1$?

Y8 UNIT 4
Expand and Factorise
Can I multiply out two sets of single brackets?
Can I factorise expressions including those with indices into single brackets?

Y8 UNIT 7
Equations
Can I solve linear equations?
How do I solve equations with variables on both sides?

Y8 UNIT 6
Rearrange Formulae
What is the subject of a formula?
How do I change the subject of a formula?

Y8 UNIT 5
Linear Graphs
How do I plot a linear graph from a table of values?
Can I identify the gradient and y-intercept?

Y8 UNIT 8
Area
How do I find the area of compound shapes?
How do I find the surface area of different prisms?

Y8 UNIT 9
Ratio recap
How do I compare ratio and related fractions?
How do I divide an amount in a given ratio?

Y8 UNIT 10
Algebra
What is the difference between solving an inequality or an equation?

Y8 UNIT 11
Probability
How can I use probability to make estimates and predictions?
What is the difference between theoretical and experimental probability?

Y8 UNIT 14
Circles
Can I name the different parts of a circle?

Y8 UNIT 13
Statistical Diagrams
Can I draw and interpret pie charts?
What is a frequency tree?

Y8 UNIT 12
Averages
Can I make decisions about the best average to use for a data set?

Y8 UNIT 15
Constructions
Can I construct an accurate triangle with only ruler and pair of compasses?
Can I construct an accurate triangle with only ruler and protractor?

Y8 UNIT 16
Volume
How do I find the volume of a cylinder?
How can I find the volume of different prisms?

Y8 UNIT 18
Problem Solving with angles
Can I solve simple equations using the rules of angles and parallel?

Y8 UNIT 17
Fractions, Decimal Percentages
How do I calculate percentage change?
How do I compare with decimals with fractions?

YR9

Y9 UNIT 1
Substitution
Can I interpret algebraic notation?

Y9 UNIT 2
Sequences
Can I recognise arithmetic, Fibonacci, quadratic and geometric sequences?

Y9 UNIT 3
Linear Graphs
What do the variables in $y=mx+c$ represent?

Y9 UNIT 7
Linear equations
How do I solve linear equations with unknown on both sides?

Y9 UNIT 6
Indices
How do I do calculate $2^3 \times 3^2$?

Y9 UNIT 4
Transformations
Can I describe the four transformations?

Y9 UNIT 8
Inequalities
How do I solve an inequality with a negative variable?
How do I solve an inequality with variables on both sides?

Y9 UNIT 9
Quadratic Manipulation
How do I factorise a quadratic expression?
How do I expand double brackets?

Y9 UNIT 10
Quadratic Functions
How do I find the roots of an equation from a graph?
Can I plot a quadratic graph when given an equation?

Y9 UNIT 5
Direct and Inverse
Can I identify direct and inverse proportion?

Y9 UNIT 14
Area
How do I calculate the surface area of prisms and cylinders?

Y9 UNIT 13
Angles and Shape Geometry
Can I use a scale drawing to find real life measurements?
How can I use parallel lines rules to solve bearings problems?

Y9 UNIT 12
Angles and shape Geometry
What are the rules of congruency?
How do I use corresponding, alternate and co interior facts to calculate angles?

Y9 UNIT 15
Simultaneous Equations
How do I solve simultaneous equations using a graph?

Y9 UNIT 16
Bounds
How do I find the upper and lower bounds involving calculations?

Y9 UNIT 19
Data
Can I use a Venn Diagram?

Y9 UNIT 18
Probability
Can I use and calculate relative frequency?
Can I use Theoretical Probability and compare it to relative frequency?

Y9 UNIT 17
Probability
Can I complete a frequency tree?
Can I list outcomes systematically?

Y9 UNIT 20
Scatter Graphs
What are the dangers of extrapolating data from a scatter graph?
How do I draw a line of best fit?

KS4