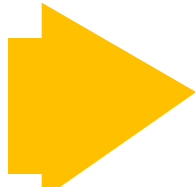


Mathematics Learning Journey

Prepares you for further study in:
Mathematics, Physics, Chemistry, Biology,
Engineering, Psychology, Economics, Business

Prepares you for roles in:
Engineering, banking, insurance, accountancy, finance,
business, statistics, data analysis, construction...



Revision

f_x

Changing the subject

Non-linear graphs

Gradients and lines



Indices and roots

Algebra

Graphs

Functions

Expanding and factorising

Using graphs



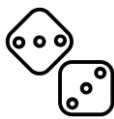
Manipulating expressions

Number



Working with circles

Ratios and fractions



Probability

Non calculator methods

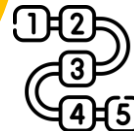
Angles and bearings

Geometry

Proportions and proportional change

Delving into data

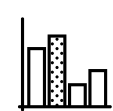
Types of number and sequences



Vectors

Percentages and interest

Collecting, representing and interpreting data



Developing Algebra

Simultaneous equations

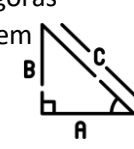


Probability

Rates

Solving ratio and proportion problems

Pythagoras' Theorem



YEAR 10

Similarity

Representations

Reasoning with Proportion

Representing equations and inequalities

Congruence, similarity and enlargement

Algebraic representation

Enlargement and similarity



Rotation and translation

Reasoning with Geometry

Forming and solving equations

Constructions and Congruency



Numbers

Maths and money

Straight-line graphs

Reasoning with Algebra

Constructing in 2 and 3 dimensions

Reasoning with Number

Deduction

Testing conjectures



Three dimensional shapes



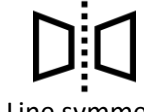
Using percentages



Brackets, equations and inequalities

YEAR 9

The data handling cycle



Line symmetry and reflection

Angles in parallel lines and polygons

Standard index form

Indices

Tables and probability

Measures of location

Reasoning with Data

Developing Geometry

Developing Number

Algebraic techniques



Constructing, measuring and using geometric notation

Developing Number sense

Prime numbers and proof

Ratio and scale

Multiplying and dividing fractions

Representations

Addition and subtraction of fractions



Area of trapezia and circles

Number sense

Fractions and percentages

Sequences

Representing data

Fractional thinking

Directed Number



Solve problems with addition, subtraction multiplication and division

Place value and ordering integers and decimals

Understand and use algebraic notation

Lines and Angles

Reasoning with Number

YEAR 8

Proportional Reasoning

Working in the Cartesian plane

Developing geometric reasoning

Sets and probability



Multiplicative change

Application of Number

Place Value and Proportion

Algebraic Thinking

YEAR 7

welcome

Four operations with directed number



Fractions and percentages of amounts



Fraction, decimal and percentage equivalence

Equality and equivalence

Sequences

What we learn and when we learn it!



Year	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
7	Algebraic Thinking <ul style="list-style-type: none"> Sequences Understand and use algebraic notation Equality and equivalence 	Place value and proportion <ul style="list-style-type: none"> Place value and ordering integers and decimals Fraction, decimal and percentage equivalence 	Applications of Number <ul style="list-style-type: none"> Solve problems with addition, subtraction multiplication and division Fractions and percentages of amounts 	Directed number <ul style="list-style-type: none"> Four operations with directed number Fractional thinking Addition and subtraction of fractions 	Lines and Angles <ul style="list-style-type: none"> Constructing, measuring and using geometric notation Developing geometric reasoning 	Reasoning with Number <ul style="list-style-type: none"> Developing Number sense Sets and probability Prime numbers and proof
8	Proportional reasoning <ul style="list-style-type: none"> Ratio and scale Multiplicative change Multiplying and dividing fractions 	Representations <ul style="list-style-type: none"> Working in the Cartesian plane Representing data Tables and probability 	Algebraic techniques <ul style="list-style-type: none"> Brackets, equations and inequalities Sequences Indices 	Developing Number <ul style="list-style-type: none"> Fractions and percentages Standard index form Number sense 	Developing Geometry <ul style="list-style-type: none"> Angles in parallel lines and polygons Area of trapezia and circles Line symmetry and reflection 	Reasoning with Data <ul style="list-style-type: none"> The data handling cycle Measures of location
9	Reasoning with Algebra <ul style="list-style-type: none"> Straight-line graphs Forming and solving equations Testing conjectures 	Constructing in 2 and 3 dimensions <ul style="list-style-type: none"> Three dimensional shapes Constructions and Congruency 	Reasoning with Number <ul style="list-style-type: none"> Numbers Using percentages Maths and money 	Reasoning with Geometry <ul style="list-style-type: none"> Deduction Rotation and translation Pythagoras' Theorem 	Reasoning with Proportion <ul style="list-style-type: none"> Enlargement and similarity Solving ratio and proportion problems Rates 	Representations <ul style="list-style-type: none"> Probability Algebraic representation Revision Handling data, error intervals, sequences
10	Similarity <ul style="list-style-type: none"> Congruence, similarity and enlargement Trigonometry 	Developing Algebra <ul style="list-style-type: none"> Representing equations and inequalities Simultaneous equations 	Geometry <ul style="list-style-type: none"> Angles and bearings Working with circles Vectors 	Proportions and proportional change <ul style="list-style-type: none"> Ratios and fractions Percentages and interest Probability 	Delving into data <ul style="list-style-type: none"> Collecting, representing and interpreting data Non calculator methods 	Number <ul style="list-style-type: none"> Types of number and sequences Indices and roots Manipulating expressions
11	Graphs <ul style="list-style-type: none"> Gradients and lines Non-linear graphs Using graphs 	Algebra <ul style="list-style-type: none"> Expanding and factorising Changing the subject Functions 	Revision Reasoning <ul style="list-style-type: none"> Multiplicative Geometric Algebraic 	Revision Communicate <ul style="list-style-type: none"> Transforming and constructing Listing and describing Show that 	Revision <ul style="list-style-type: none"> 	Revision <ul style="list-style-type: none">