

**START
YEAR 7**

Visual & numerical Sequences,
function machines

Equality, solving 1-step
equations using the inverse,
collecting like terms

Autumn 1

Algebraic notation, substitution,
generating sequences using the nth term

Equivalent Fractions
& simplifying
fractions

Numbers: Equivalence, Place Value, rounding,
ordering & comparing numbers & decimals

Autumn 2

Use & Interpret pie
charts

Averages: Finding the
Range & Median

Perimeter of
shapes

Factors, multiples &
order of operations

Area of rectangles,
triangles &
parallelograms

Fraction &
Percentage of
Amounts

Spring 1

Mental & Written
Arithmetic, Financial
Maths, frequency trees

Bar charts /
line charts

Converting
metric units

Averages: Finding
the Mean

Representing fractions, improper & mixed
fractions, adding/subtracting fractions

Calculations with
Directed Numbers

Spring 2

Solving 2-Step Equations

Geometric Notation &
types of angles

Constructing triangles &
polygons accurately

Angle Facts &
Reasoning

Summer 1

Measuring & drawing angles,
parallel & perpendicular lines

Draw pie
charts

HCF, LCM, Prime Numbers,
Conjectures & Proof

Mental, Written & Calculator
Strategies, Estimation

**END OF
YEAR 7**

Summer 2

Sets & Venn Diagrams, Probability &
Sample Space

**START
YEAR 8**

Laws of Indices
Recognise first 10 square & cube
numbers

Prime factor
decomposition, finding
HCF & LCM through listing

Autumn 1

Rounding & estimation

Calculations with
percentages & fractions

Ratio-Simplifying, expressing quantities
in ratio, fractions & percentages

Exchange rates, best buys,
Reading currencies from conversion
graphs

Autumn 2

Solving equations (inc unknown both sides)
Expanding & factorising brackets

Convert units of measure (imperial &
metric), Mass & Capacity

Spring 1

Reflection, Rotational
symmetry, Enlargement &
mixed transformations

Straight line graphs & equations -
Introduce $y=mx+c$ find gradients

Circle area & circumference.
Volume of cylinders

Spring 2

Representing data in bar charts, pie charts & venn
diagrams (Drawing, Interpreting & comparing)

Area of compound
shapes, surface area &
volume of cuboids

Probability experimental & relative
frequency. Completing venn diagrams

Summer 1

Averages, quartiles, frequency
tables, Stem & leaf, scatter graphs

Sequences & patterns:
Finding the next term, term to term
rule & nth term

**END OF
YEAR 8**

Summer 2

Parallel lines , Bearings &
construction

**START
YEAR 9**

Simplifying expressions, Expanding single/double brackets, factorisation

Angles in Parallel lines, Interior & Exterior Angles in Regular & Irregular Polygons

Autumn 1

Prime factors, HCF, LCM, Laws of Indices & Standard Form

Constructions & Loci

Surds: simplifying & calculating $\pm x/$

Averages from Frequency tables (inc cumulative frequency & fx), Estimated averages from grouped frequency tables

Autumn 2

Rounding to significant figures & estimation

Representing Charts & graphs: Pie, Line, time series, scatter, stem & leaf, 2-way tables

Pythagoras' Theorem

Trigonometry

Linear graphs, gradients, intercepts & parallel lines

Spring 1

Forming & Solving Equations, rearranging formulae

Scale factors & similar triangles

Sequences: Linear & non-linear

Non-linear graphs (quadratic, exponential, reciprocal), inc estimating solutions from graphs

Spring 2

Multipliers, Percentage Increase/Decrease, Repeated Percentage Change

Factorising & solving quadratics

Sharing in Ratio, Direct/Indirect proportion, Recipes, Best Buys

Direct/Inverse proportion (algebraic)

Summer 1

Conversions & Conversion graphs

Area, surface area & volume of prism

Compound Measures (Speed, Density & Pressure), Distance/Velocity Time graphs

**END OF
YEAR 9**

Summer 2

Congruency & Transformations

Circles & sectors: Pi, circumference, area & perimeter

START
YEAR 10
foundation

Similarity &
congruency

Pythagoras' Theorem &
Trigonometry

Autumn 1

Enlargement using
scale factors

Inequalities on
numbers lines, Solving
inequalities

Straight line graphs $y=mx+c$, gradients &
intercepts

Bearings

Autumn 2

Plotting quadratic
graphs

Solving Simultaneous Equations
graphically, via substitution & elimination

Circle: circumference, area,
radius/diameter, arcs & sectors

Spring 1

Loci & Constructions: bisectors,
congruent triangles

Volume & density

Growth & Decay: Repeated %
increase/decrease, compound interest

Direction vectors, scalars,
adding/subtracting

Spring 2

Ratios & Fractions: direct & inverse proportion,
currency conversion, best buys, 1:n, combining ratios

Speed, distance,
time

Rates of Change

Summer 1

Probability, venn diagrams
& tree diagrams

Density, mass,
volume

Population & samples, line & pie charts,
averages, stem & leaf, extrapolation

END OF
YEAR 10
foundation

Summer 2

Arithmetic, estimation & rounding,
financial maths

START
YEAR 10
higher

Enlargement & transformations

Trigonometry, 3D trig, sine & cosine rule, area of triangles using $\frac{1}{2}ab\sin C$

Autumn 1

Similar shapes, area & volume, congruency proof

Representing Inequalities, Solving linear & quadratic inequalities via graphs

Bearings (inc with trigonometry & pythagoras)

Straight line graphs $y=mx+c$, perpendicular lines

Autumn 2

Plotting quadratic & other non-linear graphs

Solving linear & non-linear simultaneous equations (graphical, substitution, elimination)

Circle: circumference, area, radius/diameter, arcs & sectors

Volume & surface area of cylinders, cones & spheres, Density

Spring 1

Loci & Constructions: bisectors, congruent triangles

Circle Theorems

Growth & Decay: Repeated % increase/decrease, compound interest

Vectors: represent, notation, parallel, geometric arguments & vector proof

Spring 2

Ratios & algebra: direct & inverse proportion, currency conversion, best buys, 1:n, combining ratios

Compound Measures & Rates of Change: Speed, Density, Pressure, distance/time graphs

Surds, Accuracy &, Upper/Lower Bounds

Summer 1

Probability, venn diagrams, tree diagrams, conditional probability

Histograms, Cumulative Freq, Graph types

END OF
YEAR 10
higher

Calculations with Algebraic Fractions

Geometric & Quadratic Sequences

Summer 2

Algebraic Proof

Laws of Indices, Standard Form

**START
YEAR 11
foundation**

Expanding & factorising with
quadratics, representing &
solving inequalities

Enlargement,
similarity &
congruence

Solving
Simultaneous
Equations

Autumn 1

Laws of Indices &
standard form

Pythagoras &
Trigonometry

Volume of pyramids,
cones & spheres

Linear Graphs $y=mx+c$ &
plotting non-linear graphs

Systematic
Listing

Autumn 2

Using graphs: distance
time / speed time

Probability, Venn
diagrams & tree diagrams

Rearranging formulae &
using function machines

Vectors, Scale Diagrams, Angles &
Bearings. Transformations & Loci

Representing
Data &
extrapolation

Spring 1

Proportion: Direct/Indirect,
Recipes, Best Buys etc

Estimation, Limits
of Accuracy &
Financial Maths

Percentages,
Compound
Measures

Sharing &
Combining
Ratios

EXAM ANALYSIS-BASED REVISION

Spring 2

EXAM ANALYSIS-BASED REVISION

Summer 1

**GCSE
TIME!!!**

**START
YEAR 11
higher**

Manipulating
quadratics

Iteration

Trigonometric
graphs

Exact trig
values

Algebraic
proof

Autumn 1

Solving & sketching
quadratics: factorising,
quadratic formula.
completing the square

Algebraic functions:
composite and
inverse

Graph
transformations

**Advanced ratios
(inc with algebra)**

Gradients, intercepts
& equations

Algebraic Proportion:
direct & inverse

Equations of
circles & tangents

Inequalities

Autumn 2

Parallel &
perpendicular lines

$Y=mx + c$

Vectors:
Properties,
ratios & proof

Graphs: quadratics,
cubic, exponential,
reciprocals etc

**Real life graphs:
conversion,
distance, histogram**

Constructions
& Loci

Congruence

advanced Trig:
Sine & Cosine

Area &
Volume

Spring 1

Probability: tree
diagrams & venn

Circle
theorems

Lengths, areas
& vol of similar
shapes

Trigonometry

Density

EXAM ANALYSIS-BASED REVISION

Spring 2

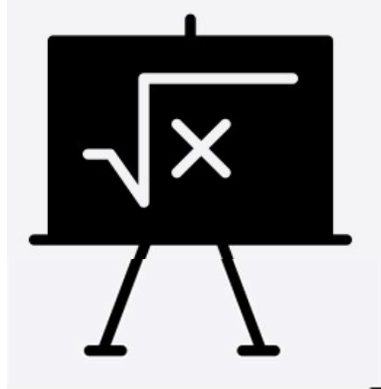
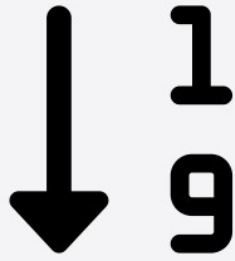
EXAM ANALYSIS-BASED REVISION

Summer 1

**GCSE
TIME!!!**

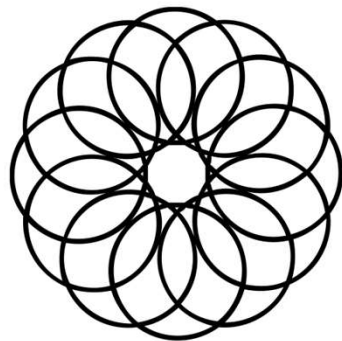
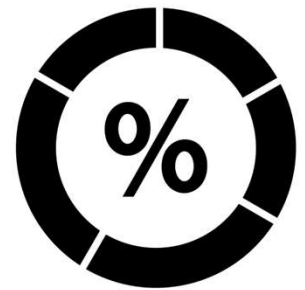
COLOUR-CODE KEY

Number



Algebra

Ratio, Proportion &
Rates of Change



Geometry

Probability



Statistics