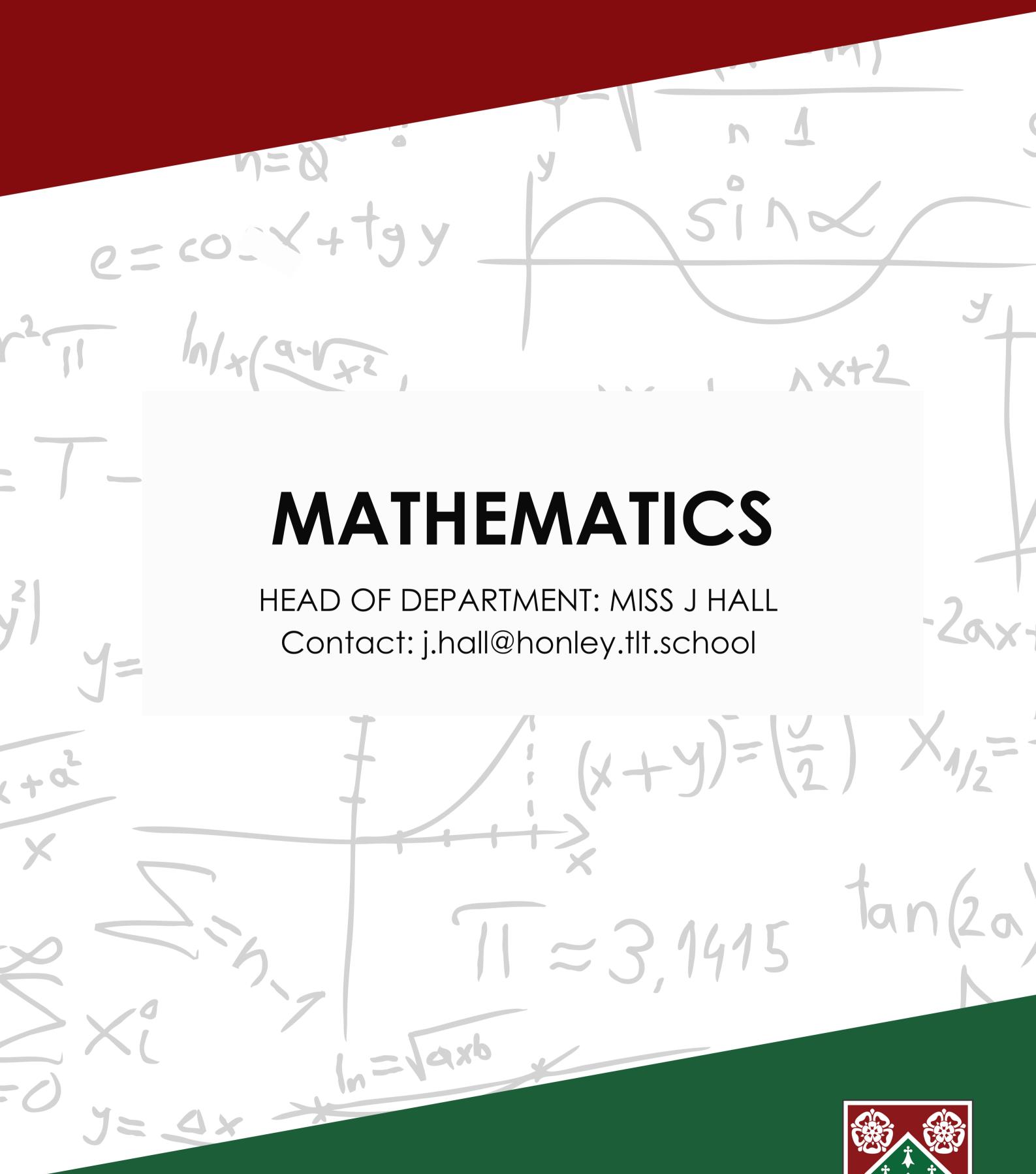
HONLEY HIGH SCHOOL CURRICULUM GUIDE 2023-2024





Maths Year 7 - Breakthrough

AUTUMN 1

Working with numbers

- Number lines
- Adding and subtracting two-digit numbers
- Multiplying and dividing large numbers
- Inverse operations

Number Skills

- Understanding decimals
- Multiples
- Multiplying by powers of 10
- Dividing with decimals
- Factors

Directed Number

- Representing negatives on a number line
- Calculations that cross zero
- Addition and subtraction of negatives
- Multiplication and division of negatives

CAREERS LINKS

Accountancy, Chef, Banking
Insurance, Bookmaking, Risk
Analyst, News Reporting,
Analyst, Businessperson,
Performance Analyst.
Actuaries, Economist,
Meteorologist, Carpenter,
Welder, Construction,
Architecture, Joinery, Games
Designer, Software Design &
IT, Engineering, Catering,
Hairdressing

CHARACTER LINKS

Perseverance and

determination skills are fostered (performance

virtues) particularly when

students do not arrive at the

correct answer first time and

when trial and error skills are

needed. Project work

encourages critical thinking,

judgement and reasoning skills (intellectual virtues) to

arrive at the outcome

AUTUMN 2

Fractions

- Representing fractions
- Equivalent fractions
- Fractions of amounts
- Adding and subtracting fractions

Project Work

Classes will work in teams to develop projects using maths in real life problems

the same

Add and subtract fractions with the same denominator (Year 4) Add and subtract fractions with different denominators (Year 6)

Knowledge of times tables (KS2)

Formal and mental methods for

adding, subtracting, multiplying

Order and compare numbers up to

SPRING 1

Percentages and Decimals

- Equivalent fractions, decimals and percentages
- Ordering fractions, decimals and percentages
- Percentages of amounts

Introducing Algebra

- Algebraic Manipulations
- Simplifying algebraic expressions
- Substitution
- Solving one-step equations

Prior Learning

Prior Learning

10.000.000 (Year 6)

and dividing (KS2)

Prior Learning

Use simple formulae (Year 6) Equivalent fractions and decimals (Year 5)

SPRING 2

Measure, Perimeter and Area

- Converting units of measure
- Perimeter of 2D Shapes
- Area of 2D Shapes
- Multiplying and dividing fractions

RAR

- Revision and Retention
- Bespoke intervention based on gaps in prior learning

Prior Learning

Convert between different units of measure (Year 4) Recognise and name common 2D Shapes and their properties (KS2) Use simple formulae (Year 6)

SUMMER 1

Averages

- Calculating mean, median, mode and range
- Comparing averages
- Frequency tables

Probability

- Probability scales
- Sample space diagrams
- Experimental probability

Angles

- Angle types
- Angles at a point
- Angles in triangles and quadrilaterals

Statistical Diagram

- Frequency tables
- Bar charts
- Line graphs
- Pie charts

Prior Learning

Types of angles (Year 4) Introduction to basic angle facts (Year 6) Calculating the mean (Year 6)

KEY ASSESSMENT DATES

Summative assessments:
December 2023
June 2024

SUMMER 2

3D Shapes

- 3 D Shapes
- Nets
- Plans and elevations
- Volume of a cuboid

Ratio

- Simplifying ratio
- Representing a ratio visually
- Sharing into a ratio

Prior Learning

Name 3D Shapes (KS1) Scale factors (Year 6) Recipe problems (Year 6)



Maths Year 7 - Core & Accelerated

AUTUMN 1

Number Skills

- Addition, subtraction, multiplication and division of integers and decimals
- Multiples
- **Factors**

Directed Number

- Calculations that cross zero
- Addition and subtraction of negatives
- Multiplication and division of negatives

Fractions

- Fractions of amounts
- Adding and subtracting fractions
- Working with mixed numbers

Prior Learning

Knowledge of times tables (KS2) Order and compare numbers up to 10,000,000 (Year 6) Formal and mental methods for adding, subtracting, multiplying and dividing (KS2)

CAREERS LINKS

Accountancy, Chef, Banking Insurance, Bookmaking, Risk Analyst, News Reporting, Analyst, Businessperson, Performance Analyst. Actuaries, Economist, Meteorologist, Carpenter, Welder, Construction, Architecture, Joinery, Games Designer, Software Design & IT, Engineering, Catering, Hairdressing

CHARACTER LINKS

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students do not arrive at the

correct answer first time and

when trial and error skills are

needed. Project work

encourages critical thinking, judgement and reasoning

skills (intellectual virtues) to

arrive at the outcome

AUTUMN 2

Percentages and Decimals

- Equivalent fractions, decimals and percentages
- Ordering fractions, decimals and percentages
- Percentages of amounts

Algebra

- Algebraic Manipulations
- Simplifying algebraic expressions
- Substitution
- Solving one-step equations

Project Work

Classes will work in teams to develop projects using maths in real life problems

Prior Learning

Add and subtract fractions with the same denominator (Year 4) Add and subtract fractions with different denominators (Year 6)

SPRING 1

Developing Algebra

- **Expanding brackets**
- Factorising expressions
- Solving two-step equations
- Solving equations with unknowns on both sides

Measure, Perimeter and Area

- Converting units of measure
- Perimeter of 2D Shapes
- Area of 2D Shapes
- Multiplying and dividing fractions

Prior Learning

Convert between different units of measure (Year 4) Recognise and name common 2D Shapes and their properties (KS2) Use simple formulae (Year 6)

Averages

- Calculating mean, median, mode and range
- Comparing averages
- Frequency tables

RAR

Revision and Retention

SPRING 2

Bespoke intervention based on gaps in prior learning

Prior Learning

Calculating the mean (Year 6)

SUMMER 1

Probability

- Experimental probability
- **Probability Trees**
 - Venn diagrams

Angles

- Measuring and drawing angles
- Basic angle facts
- Angles in quadrilaterals and triangles

Statistical Diagram

- **Bar Charts**
- Scatter diagrams
- Stem and Leaf diagrams
- Pie charts

Prior Learning

Types of angles (Year 4) Introduction to basic angle facts (Year 6)

SUMMER 2

3D Shapes

- Plans and elevations
- Surface area
- Volume of cubes and cuboids

Ratio

- Simplifying ratio
- Writing ratio in the form 1:n
- Sharing into a ratio

Prior Learning

Name 3D Shapes (KS1) Scale factors (Year 6) Recipe problems (Year 6)

KEY ASSESSMENT DATES

Summative assessments: December 2023 June 2024



Maths Year 8

AUTUMN 1

Ratio and Scale

- Simplifying ratio
- Sharing into a ratio

Multiplicative Change

- Direct proportion
- Scale diagrams
- Currency conversion
- Similar shapes

Multiplying and Dividing Fractions

- Mixed numbers
- Simple algebraic fractions

Prior Learning

Multiplicative relationships (Year 7)

Convert metric units (Year 7)

AUTUMN 2

Working in the Cartesian Plane

- Simple straight line graphs
- Gradient
- v = mx + c

Representing Data

- Scatter graphs
- Frequency tables
- Two-way tables

Tables and Probability

- Sample space diagrams
- Venn diagrams

Prior Learning

Represent functions graphically (Year 7) Language of probability (Year 7) Probability scale (Year 7)

SPRING 1

Brackets, Equations & Inequalities

- Expanding brackets
- Factorising
- Solving equations and inequalities

Sequences and Indices

- Nth term
- Index laws

Prior Learning

Form and solve one-step and twostep equations (Year 7) Recognise linear and non-linear sequences (Year 7) Generate sequences (Year 7)

SPRING 2

Fractions and Percentages

- Multipliers
- Reverse percentages

Standard Form

- Powers of 10
- Writing in standard form
- Calculating in standard form

Number Sense

- Rounding to decimal places
- Error intervals
- Metric units

Prior Learning

Percentage of amounts (Year 7)
Equivalent fractions, decimals and
percentages (Year 7)
Round numbers to powers of 10
(Year 7))

SUMMER 1

Angles in Parallel Lines and Polygons

- Angles on parallel lines'
- Angles in polygons
- Constructions

Area of Trapezia and Circles

- Area of a trapezium
- Area of a circle
- Perimeter and area of compound shapes

Line Symmetry and Reflection

- Reflecting shapes

Prior Learning

Area (Year 7)
Properties of triangles and quadrilaterals (Year 7)
Angle facts (Year 7)

SUMMER 2

The Data Handling Cycle

- Questionnaires
- Pictograms and bar charts
- Pie charts
- Comparing distributions

Measures of Location

- Mean, median and mode
- Mean from a table

Prior Learning

Interpret pie charts (Year 7) Line and bar charts (Year 7)

CHARACTER LINKS

CAREERS LINKS

Accountancy, Chef, Banking

Insurance, Bookmaking, Risk

Analyst, News Reporting,

Analyst, Businessperson,

Performance Analyst. Actuaries, Economist,

Meteorologist, Carpenter,

Welder, Construction,

Architecture, Joinery, Games

Designer, Software Design &

IT, Engineering, Catering, Hairdressing

Perseverance and determination skills are fostered (performance virtues) particularly when students do not arrive at the correct answer first time and when trial and error skills are needed. Project work encourages critical thinking, judgement and reasoning skills (intellectual virtues) to arrive at the outcome

KEY ASSESSMENT DATES

Summative assessment w/c 12 June 2024



Maths Year 9

CAREERS LINKS

Accountancy, Chef, Banking

Insurance, Bookmaking, Risk

Analyst, News Reporting,

Analyst, Businessperson, Performance Analyst. Actuaries. Economist.

Meteorologist, Carpenter,

Welder, Construction,

Architecture, Joinery, Games

Designer, Software Design &

IT, Engineering, Catering, Hairdressing

CHARACTER LINKS

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critical thinking, judgement,

and reasoning skills

(intellectual virtues) to arrive

at the outcome

AUTUMN 1

Three-Dimensional Shapes

- Nets of 3D shapes
- Surface area
- Volume

Constructions and Congruency

- Loci
- Constructions
- Congruent triangles

Prior Learning

Area of 2D shapes (Year 8) Geometric notation (Year 7) Name and construct polygons (Year 7)

AUTUMN 2

Straight Line Graphs

- Comparing gradients and intercepts
- Real-life graphs
- Parallel and perpendicular lines

Forming and Solving

- Solve equations and inequalities with unknowns both sides
- Substitution
- Rearranging formulae

Testing Conjectures

- Conjectures with number and algebraExpanding a pair of binomials
- Expanding three binomials

Prior Learning

Form and solve equations (Year 7) Solve inequalities (Year 8) Plotting graphs (Year 8)

SPRING 1

Numbers

- Rational numbers
- Surds

Using Percentages

- Reverse percentages
- Repeated percentage change

Maths and Money

- InterestWages and taxes
- Exchange rates

Prior Learning

Percentage increase and decrease (Year 8) Number sense (Year 8) Using multipliers (Year 8) Calculations with money (Year 8)

SPRING 2

Deduction

- Parallel lines
- Multi-step angle problems

Rotation and Translation

- Rotating shapes
- Vector translations

Pythagoras' Theorem

- Find missing sides using Pythagoras'
 Theorem
- Pythagoras' in 3-D

Prior Learning

Angles in parallel lines (Year 8) Angle facts (Year 7) 3-dimeensional shapes (Year 9)

SUMMER 1

Enlargement and Similarity

- Enlarging shapes
- Negative and fractional enlargements
- Similar triangles

Ratio and Proportion

- Direct and inverse proportion
- Best buy problems
- Ratio and algebra

Rates

- Speed, distance, time
 - Density, mass, volume
- Rates of change

Prior Learning

Scale factors (Year 8)
Working with ratio (Year 8)

SUMMER 2

Probability

- Relative frequency
- Expected outcomes
- Tree diagrams

Representing Solutions

- Drawing graphs
- Representing inequalities
- Factorising
- Solutions using graphs

Prior Learning

Tables and Venns to find probabilities (Year 8)

KEY ASSESSMENT DATES

Summative assessment: June 2024



Higher Maths Year 10

AUTUMN 1

Linear Equations & Inequalities

- Forming and solving equations & inequalities
- Solving simultaneous equations

Powers & Surds

- Laws of indices
- Calculating with surds
- Rationalising the denominator

Limits of Accuracy

- Upper and lower bounds
- Truncation

Direct & Inverse Proportion

- Direct and inverse proportion
- Work rate

Prior Learning

Forming and solving equations (Year 9) Indices (Year 8) Multiplicative reasoning (Year 8)

AUTUMN 2

Quadratic Equations

- Factorising quadratics
- Using the quadratic formula
- Completing the square

Circle Theorems

- Using circle theorems to find missing angles
- Circle theorem proof

Prior Learning

Brackets, equations & inequalities (Year 8) Geometric reasoning (Year 7) Deduction (Year 9)

SPRING 1

Quadratic & Other Graphs

- Plotting graphs
- Understanding parallel and perpendicular lines
- Using the equation of a circle

Simultaneous Equations

- Linear simultaneous equations
- Non-linear quadratic equationsSolving simultaneous equations
- Solving simultaneous equations graphically

Quadratic & Geometric Sequences

- Linear sequences
- Nth term of a quadratic sequence
- Understanding geometric sequences

Prior Learning

Straight line graphs (Year 9) Linear equations & inequalities (Year 10) Sequences (Year 8)

SPRING 2

Ratio & Algebra

- Using ratio with linear equations
- Using ratio with quadratic equations

Revision & Retention

Bespoke intervention based on prior learning.

Prior Learning

Ratio & scale (Year 8)
Ratio & proportion problems
(Year 9)
Quadratic equations (Year 10)

SUMMER 1

Triangles

- Pythagoras' Theorem
- 2D trigonometry
- Sine and Cosine rules

Statistical Diagrams

- Cumulative frequency graphs
- Box plots
- Histograms

Algebraic Fractions

- Algebraic fraction arithmetic
- Solving algebraic fractions

Bearings

- Read and interpret bearings
- Bearings with trigonometry

Prior Learning

Pythagoras' theorem (Year 9) The data handling cycle (Year 8) Adding and subtracting fractions (Year 7)

SUMMER 2

Probability

- Tree diagrams
- Conditional probability
- Algebraic tree diagrams

Iteration

- Compound interest
- Rearranging equations
- Iterative processes

Prior Learning

Sets & probability (Year 7) Maths & money (Year 9) Percentages (Year 8)

CAREERS LINKS

Accountancy, chef, banking insurance, bookmaking, risk analyst, news reporting, analyst, businessperson, performance analyst.
Actuaries, economist, meteorologist, carpenter, welder, construction, architecture, joinery, games designer, software design & IT, engineering, catering, hairdressing

CHARACTER LINKS

Perseverance and determination skills are fostered (performance virtues) particularly when students do not arrive at the correct answer first time and when trial and error skills are needed. Independent and groupwork encourages critical thinking, judgement and reasoning skills (intellectual virtues) to arrive at the outcome

KEY ASSESSMENT DATES

Autumn assessment: Dec 23 Spring assessment: April 24 Mock exams: June 24



Crossover Maths Year 10

AUTUMN 1

Linear Equations & Inequalities

- Forming and solving equations & inequalities
- Solving simultaneous equations

Powers & Surds

- Laws of indices
- Calculating with surds
- Rationalising the denominator

Limits of Accuracy

- Upper and lower bounds
- Truncation

Direct & Inverse Proportion

- Direct and inverse proportion
- Work rate

Prior Learning

Forming and solving equations (Year 9) Indices (Year 8) Multiplicative reasoning (Year

AUTUMN 2

Quadratic Equations

- Factorising quadratics
- Using the quadratic formula
- Completing the square

Circle Theorems

- Using circle theorems to find missing angles
- Circle theorem proof

Prior Learning

Brackets, equations & inequalities (Year 8) Geometric reasoning (Year 7) Deduction (Year 9)

CHARACTER LINKS

CAREERS LINKS

Accountancy, chef, banking

insurance, bookmaking, risk

analyst, news reporting, analyst,

businessperson, performance

analyst. Actuaries, economist, meteorologist, carpenter,

welder, construction, architecture, joinery, games

designer, software design & IT,

engineering, catering,

hairdressing

Perseverance and determination

skills are fostered (performance virtues) particularly when students do not arrive at the correct answer first time and when trial and error skills are needed. Independent and groupwork encourages critical thinking, judgement and

SPRING 1

Quadratic & Other Graphs

- Plotting graphs
- Understanding parallel and perpendicular lines
- Using the equation of a circle

Simultaneous Equations

- Linear simultaneous equations
- Non-linear quadratic equations
- Solving simultaneous equations graphically

Prior Learning

Straight line graphs (Year 9) Linear equations & inequalities (Year 10)

SPRING 2

Triangles

- Pythagoras' Theorem
- 2D trigonometry
- Sine and Cosine rules

Revision & Retention

Bespoke class intervention based on prior learning.

Prior Learning Pythagoras' theorem (Year 9) Ratio & proportion problems (Year 9)

SUMMER 1

Ouadratic & Geometric Sequences

- Linear sequences
- Nth term of a quadratic sequence
- Understanding geometric sequences

Ratio & Algebra

- Using ratio with linear equations Using ratio with quadratic
- equations

Bearings

- Read and interpret bearings
- Bearings with trigonometry

Statistical Diagrams

- Cumulative frequency graphs
- Box plots
- Histograms

Prior Learning

Sequences (Year 8) The data handling cycle (Year 8) Triangles (Year 10) **Ratio & Proportion** problems (Year 9)

SUMMER 2

Algebraic Fractions

- Algebraic fraction arithmetic
- Solving algebraic fractions

Probability

- Tree diagrams
- Conditional probability
- Algebraic tree diagrams

Prior Learning

Sets & probability (Year 7) Probability (Year 9) Adding and subtracting fractions (Year 7)

KEY ASSESSMENT DATES

reasoning skills (intellectual

virtues) to arrive at the outcome

Autumn assessment: Dec 23 Spring assessment: April 24 Mock exams: June 24



Foundation Maths Year 10

AUTUMN 1

Percentages

- Finding percentage of amounts
- Percentage increase & decrease

Quadratic Equations

- Expanding double brackets
- Solving quadratics by factorising
- Quadratic graphs

Angles in Parallel Lines

- Angles
- Bearings

CAREERS LINKS

Accountancy, chef, banking insurance, bookmaking, risk analyst, news reporting, analyst, businessperson, performance analyst. Actuaries, economist, meteorologist, carpenter, welder, construction, architecture, joinery, games designer, software design & IT, engineering, catering, hairdressing

AUTUMN 2

Statistical Diagrams

- Pie charts
- SamplingAverages

Revision and Retention

Bespoke class intervention based on prior learning.

Prior Learning

Prior Learning

Brackets, equations &

inequalities (Year 8)

(Year 9)

Geometric reasoning (Year 7) Deduction (Year 9) The data handling cycle (Year 8)

Forming and solving equations

SPRING 1

Right-Angled Triangles

- Pythagoras' Theorem
- 2D trigonometry

Probability

- Two-way tables
- Frequency trees
- Tree diagrams

Prior Learning

Straight line graphs (Year 9) Linear equations & inequalities (Year 10) Pythagoras' theorem (Year 9)

SPRING 2

Ratio

- Sharing into a ratio
- Ratio as fractions

Revision & Retention

Bespoke class intervention based on prior learning.

Prior Learning

Ratio & proportion problems (Year 9) Multiplicative reasoning (Year 8)

SUMMER 1

Sequences

- Linear sequences
- Special sequences including Fibonacci

Simultaneous Equations

- Solving linear simultaneous equations
- Solving simultaneous equations graphically

Arcs and Sectors

- Area and circumference of a circle
- Length of an arc
- Area of a sector

Prior Learning

Sequences (Year 8) Area of circles and trapezia (Year 8)

SUMMER 2

Compound Measures

- Speed, distance, time
- Mass, density, volume
- Pressure, force, area

Non-Calculator Methods

- Fraction arithmetic
- Estimation
 - **Error intervals**

Prior Learning

Sets & probability (Year 7) Probability (Year 9) Adding and subtracting fractions (Year 7)

CHARACTER LINKS

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KEY ASSESSMENT DATES

Mock exams: June 24



Maths Year 11 - Higher

AUTUMN 1

Expanding and Factorising

- Expand and factorise single and double brackets
- Solve equations by factorisation
- Complete the square Quadratic formula

Changing the Subject

- Rearranging formula Iteration

Functions

- Function machines
- Inverse and composite functions
- Quadratic inequalities
- Trigonometric functions

Prior Learning

Working in the Cartesian plane Y8 Straight line graphs Y9

CAREERS LINKS

Accountancy, chef, banking insurance, bookmaking, risk analyst, news reporting, analyst, businessperson, performance analyst.
Actuaries, economist, meteorologist, carpenter, welder, construction, architecture, joinery, games designer, software design & IT, engineering, catering, hairdressing

CHARACTER LINKS

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arrive at the outcome

AUTUMN 2

Gradients and Lines

- Coordinate geometry
- Parallel lines
- Perpendicular lines
- -

Non-Linear Graphs

- Quadratic, cubic and reciprocal graphs
- Equations of circles
 Equations of tangents

Prior Learning

Algebraic notation Y7 Representing solutions Y10 Trigonometry Y10 Brackets, Equations and Inequalities Y8

SPRING 1

Using Graphs

- Distance/time graphs
- Speed/time graphs
- Area under a curve

Multiplicative Reasoning

- Direct and inverse proportion
- Pressure and density

Geometric Reasoning

- Vectors
- Circle theorems
- Trigonometry

Prior Learning

Enlargement and Congruency Y10
Testing conjectures Y9

SPRING 2

Algebraic Reasoning

- Sequences
- Simultaneous equations
- Algebraic proof

Listing and Describing

- Product rule for counting
- Systematic listing

Transforming and Constructing

- Transformations
- Loci
- Graph transformations

Show That

- 'Show that' with number, shape, algebra and data
- Congruency

Prior Learning

Enlargement and Congruency Y10
Testing conjectures Y9

SUMMER 1

Revision and practice papers

Prior Learning

Throughout the course

KEY ASSESSMENT DATES

Fortnightly exam practice embedded throughout each unit.

27 November to 8 December 23: Year 11 Mock Exams



Maths Year 11 - Crossover

AUTUMN 1

Expanding and Factorising

- Expand and factorise single and double brackets
- Solve equations by factorisation
- Complete the square Quadratic formula

Changing the Subject

Rearranging formula Iteration

Functions

- Function machines
- Inverse and composite functions
- Quadratic inequalities
- Trigonometric functions

Prior Learning

Working in the Cartesian plane Y8 Straight line graphs Y9

AUTUMN 2

Gradients and Lines

- Coordinate geometry
- Parallel lines
- Perpendicular lines

Non-Linear Graphs

- Quadratic, cubic and reciprocal graphs
- Equations of circles
 Equations of tangents

Prior Learning

Algebraic notation Y7 Representing solution Y10 Trigonometry Y10 Brackets, Equations and Inequalities Y8

SPRING 1

Using Graphs

- Distance/time graphs
- Speed/time graphs
- Area under a curve

Multiplicative Reasoning

- Direct and inverse proportion
- Pressure and density

Geometric Reasoning

- Vectors
- Circle theorems
- Trigonometry

Prior Learning

Enlargement and Congruency Y10 Testing conjectures Y9

SPRING 2

Algebraic Reasoning

- Sequences
- Simultaneous equations
- Algebraic proof

Listing and Describing

- Product rule for counting
- Systematic listing

Transforming and Constructing

- Transformations
- Loci
- Graph transformations

Show That

- 'Show that' with number, shape, algebra and data
- Congruency

Prior Learning

Enlargement and Congruency Y10 Testing conjectures Y9

SPRING 2

Revision and Practice Papers

Prior Learning

Throughout the course

CAREERS LINKS

Accountancy, chef, banking insurance, bookmaking, risk analyst, news reporting, analyst, businessperson, performance analyst.
Actuaries, economist, meteorologist, carpenter, welder, construction, architecture, joinery, games designer, software design & IT, engineering, catering, hairdressing

CHARACTER LINKS

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KEY ASSESSMENT DATES

Fortnightly exam practice embedded throughout each unit. 27 November to 8 December 23:

Year 11 Mock Exams



Maths Year 11 - Foundation

AUTUMN 1

Number Sense

- Rounding
- Addition, subtraction, multiplication, and division problems
- Problems with time

Algebra

- Simplifying expressions
- Expanding brackets
- Solving equations

Negative Numbers

- Calculating with negative numbers
- Order of operations

Prior Learning

Brackets, equations, and inequalities Y8

Number Sense Y8 Forming and Solving Y9

AUTUMN 2

Fractions and Decimals

- Ordering fractions and decimals
- Fraction arithmetic
- Multi-step problems with fractions and decimals

Ratio and Percentages

- Percentage of amounts
- Percentage increase and decrease
- Sharing into a ratio

Prior Learning

Algebraic notation Y7
Representing solutions Y10
Trigonometry Y10
Brackets, Equations and Inequalities
Y8

Ratio and Fractions Y9

SPRING 1

Area and Volume

- Area of 2D shapes
- Volume of cubes and cuboids
- Volume of prisms

Data and Probability

- Averages
- Charts and graphs
- Probability

Geometric Reasoning

- Angle facts
- Angles on parallel lines
- Angles in polygons

Prior Learning

Enlargement and Congruency Y10 Testing conjectures Y9 3D Shapes Y9 Delving into Data Y10

SPRING 2

Algebraic Reasoning

- Sequences
- Forming and solving equations and inequalities
- Simplifying expressions

Transforming and Constructing

- Transforming shapes
 - Constructions

Listing and Describing

- Sample space diagrams
- Venn diagrams
- Scatter graphs

Show That

 'Show that' with number, shape, algebra and data

Prior Learning

Enlargement and Congruency Y10 Testing conjectures Y9 Forming and Solving Y9

SUMMER 1

Revision and practice papers

Prior Learning

Throughout the course

outcome KEY ASSESSMENT

CAREERS LINKS

Accountancy, chef, banking

insurance, bookmaking, risk

analyst, news reporting,

analyst, businessperson,

performance analyst. Actuaries, economist, meteorologist,

carpenter, welder, construction, architecture,

joinery, games designer,

software design & IT,

engineering, catering,

hairdressing

CHARACTER LINKS
Perseverance and

determination skills are

fostered (performance virtues)

particularly when students do

not arrive at the correct answer

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error skills are needed. Project work encourages critical

thinking, judgement and

reasoning skills (intellectual

virtues) to arrive at the

Fortnightly exam practice embedded throughout each unit.
27 Nov to 8 Dec 2023
Year 11 Mock Exams

DATES



Maths Year 10 - Statistics

AUTUMN 1				CAREERS LINKS
Types of Data Population and Sampling	Sampling Methods	Planning and Collecting Data	Prior Learning Representing Data Y8 The Data Handling Cycle Y8	Accountancy, chef, banking insurance, bookmaking, risk analyst, news reporting, analyst, businessperson,
AUTUMN 2				performance analyst.
Qualitative and Discrete Data			Prior Learning The Data Handling Cycle Y8	 Actuaries, economist, meteorologist, carpenter, welder, construction,
SPRING 1				architecture, joinery, gamesdesigner, software design &
Continuous Data			Prior Learning Measures of Location Y8	IT, engineering, catering, hairdressing
				CHARACTER LINKS
SPRING 2				Perseverance and determination skills are
Continuous Data (cont.) Tab	ulation Mea	sures of Central Tendency	Prior Learning Representing Data Y8	fostered (performance virtues) particularly when students do not arrive at the correct answer first time and when trial and error skills are
SUMMER 1				needed. Project work
Measures of Central Tendency (cont.)	Measures	of Dispersion	Prior Learning Representing Data Y8 The Data Handling Cycle Y8	encourages critical thinking, judgement and reasoning skills (intellectual virtues) to arrive at the outcome.
SUMMER 2				KEY ASSESSMENT
Box Plots, Skewness and Representing Outliers		Prior Learning Representing Data Y8 The Data Handling Cycle Y8	Autumn assessment: Dec '23 Spring assessment: April '24 Mock exams: June '24	