MATHS CURRICULUM MAP

FURTHER STUDY

Accounting, Medicine, Engineering, Forensic pathology, Finance, Business, Teaching, IT, Games development, Scientific research, Programming, the Design, Construction and Astrophysics

CAREER PATHS

Actuary, Business, Retail, Administration, Banking and Finance, Data Analysis, Doctor, Engineer, Researcher and many more.

SKILLS

- Critical thinking and problem solving
- Analytical thinking and quantitative reasoning
- Ability to manipulate information
- Construct logical arguments
- Budgeting
- Teamwork and Independence

A03

Autumn 2
Algebraic proofs
Functions
Linear Sequences
Quadratic and Special Sequences
Approximate Calculations
Ratio and Proportion

Spring 1 and 2
Counting Strategies
Compound Changes
Trigonometry 2
Trigonometry graphs
Further Graphs
Transforming Graphs
Iteration

May Mocks

REVISION

REVISION & EXAMS

End of Year

Autumn 1

Assessment

Simultaneous Equations
Quadratic Equations
Quadratic Graphs
Vectors
Transformations
Trigonometry 1 and Pythagoras Theorem

November Exams / Mocks

YEAR 11

Summer 2
Constructions
Loci
Bearing
Circles

Summer 1
Angles and Polygons
Perimeter
Area
Volume
Transformations

Spring 2
Displaying Data in tables
Displaying Data in Charts
Mean
Median
Mode

Spring 1
Compound measures
Arithmetic Sequences
Geometric and Quadratic Sequences
Bounds
Collecting Data

❑ List of topics

End of Year Assessment

Autumn 2
Simultaneous Equations
Standard form
Surd notation
Real-life word problems
Probability
Set Notation

Winter Assessment

Autumn 1
Algebra
Problem solving
Inequalities
Similar and Congruent shapes
Pythagoras
Trigonometry 1

YEAR 10

Summer 2
Similarity and congruence
Constructions
Multiplicative reasoning
Compound Measures

Summer 1
Using equation of graphs
Non-linear graphs
Circles
Volume and Surface area of Prisms

Spring 2
Probability
Venn Diagrams
Collecting Data
Displaying Data
Averages

Spring 1
Arithmetic Sequences
Geometric and Quadratic Sequences
Inequalities
Proportion

A02

End of Year Assessment

Autumn 2
Index laws
Indices with brackets
Estimation
Solving equations
Substitution in expressions
Formulae

Winter Assessment

Autumn 1
Algebra with indices
Lines and angles
Geometric problems
Equation of line graphs
Decimals and Percentages

YEAR 9

Summer 2
Lines and angles
Angles in polygons
Geometric problems
Percentages of amounts

Summer 1
Gradients
Equations of line graphs
Proportion
Graphs
Graphs –Problem solving

Spring 2
Decimals
Ratio and proportion with decimals
Fractions
Percentages

Spring 1
Expressions with indices
Expressions with brackets
Factorising expressions
Solving equations

End of Year Assessment

Autumn 2
Calculations
Divisibility
Negative integers
Powers and roots
Multiples and factors
Area and Volume

Winter Assessment

Autumn 1
LCM and HCF
Ratio and Proportion
Lines and angles
Analysing Data
Number skills

YEAR 8

Summer 2
Coordinates
Line Graphs
Congruency
Symmetry
Transformations

Summer 1
Measuring and drawing Angles
Triangles
Quadrilaterals
Sequences

Spring 2
Fractions
Percentages
Writing Ratios
Using Ratios
Direct Proportion

A01

Winter Assessment

Spring 1
Units of measure
Decimals
Area and Perimeter
Probability

Autumn 2
Mental Maths
Calculations
Money and Time
Expressions
Formulae

Autumn 1
Algebra Basics
Long Division
Ratio and proportion
Translating and Reflecting shapes
Pie charts

YEAR 7

JAMEAH ACADEMY