## Trinity Academy <br> Curriculum map - Mathematics

## Intent



 resilience, determination and perseverance.
 most iconic mathematicians in history, who said "do not worry about your difficulties in mathematics, I can assure you that mine are still greater",

 develops highly sought after and respected skills.
 students through workshops and lectures.

## Implementation

## Key stage 3

## Autumn I

Numbers \& Numerals
Addition and subtraction
Multiplication and Division

Factors \& Multiples
Order of Operations

Axioms \& Arrays

## Autumn II Spring I

Positive \& Negative Numbers
Angles
Classifying 2d Shapes

## Expressions, equations \&

inequalities
Coordinates
Area of 2D Shapes

## Spring II

Units of Measurement

Prime Factor Decomposition
Conceptualising \& Comparing Fractions

Operations on Fractions Review Decimals

Summer I Summer II

Percentages

Congruence \& Similarity
Transformations

Data \& Statistics


## Key Stage 4

Awarding body: Edexcel

|  | AUtUn品 | Autunn | Spring | Spring | Sunnner | Sumn |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 0 \\ & 5 \\ & 6 \\ & 8 \\ & 3 \end{aligned}$ | Foundation: <br> Working with integers Properties of integers <br> Working with fractions <br> Working with decimals <br> Higher: <br> Working with integers <br> Properties of integers <br> Working with fractions <br> Working with decimals <br> Rounding and estimation <br> Percentages <br> Powers and Roots | Foundation: <br> Rounding and estimation <br> Percentages <br> Powers and Roots <br> Standard Form <br> Higher: <br> Standard Form <br> Surds <br> Collecting, Interpreting and <br> Representing Data <br> Analysing Data | Foundation: <br> Collecting, Interpreting and <br> Representing Data <br> Analysing Data <br> Properties of Polygons and 3D <br> objects <br> Angles <br> Perimeter <br> Area <br> Higher: <br> Basic Algebra <br> Properties of Polygons and 3D <br> objects <br> Angles <br> Perimeter <br> Area | Foundation: <br> Basic probability <br> Further probability <br> Ratio <br> Higher: <br> Basic probability <br> Further probability <br> Ratio | Foundation: <br> Basic algebra <br> Further algebra <br> Equations <br> Functions and sequences <br> Higher: <br> Further algebra <br> Equations <br> Pythagoras' theorem | Foundation: <br> Formulae <br> Pythagoras' theorem <br> 3D objects <br> Units and measurements <br> Higher: <br> Formulae <br> 3D objects <br> Units and measurements <br> Volume and surface area |
| $\begin{aligned} & 5 \\ & 5 \\ & 4 \\ & 4 \end{aligned}$ | Foundation: <br> Basic Algebra <br> Further algebra <br> Equations <br> Formulae <br> Ratio <br> Higher: <br> Basic Algebra <br> Further algebra <br> Equations <br> Formulae <br> Ratio | Foundation: <br> Transformations in a plane <br> Vector Geometry <br> Volume and surface area <br> Graphs of linear functions <br> Higher: <br> Transformations in a plane <br> Vector Geometry <br> Similarity <br> Congruence <br> Graphs of linear functions Interpreting graphs | Foundation: <br> Trigonometry <br> Interpreting graphs <br> Inequalities <br> Collecting, Interpreting and <br> Representing Data <br> Analysing Data <br> Basic probability <br> Further probability <br> Higher: <br> Circle theorems <br> Trigonometry <br> Graphs of other functions and equations <br> Transformations of curves | Foundation: <br> Similarity <br> Congruence <br> Constructions and Loci <br> Proportion <br> Growth and Decay <br> Higher: <br> Constructions and Loci <br> Functions and sequences <br> Inequalities <br> Proportion <br> Growth and Decay |  |  |

Key Stage 5
Awarding body: Edexcel

|  | AUtunn | Autunn | Spring | Spring | Sunnmer | Summer |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { N } \\ & 5 \\ & 10 \\ & \text { (4) } \end{aligned}$ | Algebraic expressions <br> Quadratics <br> Equations and inequalities <br> Graphs and Transformations <br> Probability <br> Statistical distributions <br> Hypothesis testing | Straight line graphs <br> Circles <br> Algebraic Methods <br> The binomial expansion <br> Data Collection <br> Measures of location and <br> spread <br> Representations of data Correlation | Trigonometric ratios <br> Trigonometric identities \& equations Vectors <br> Modelling in mechanics Constant acceleration | Differentiation Integration <br> Forces and motion | Exponentials \& Logarithms <br> Variable acceleration | Revision <br> Introduction to Y13 Content Autumn I content. |
|  | Algebraic Methods <br> Functions \& graphs <br> Sequences \& series <br> Binomial expansion <br> Moments <br> Forces \& friction <br> Projectiles | Radians <br> Trigonometric functions <br> Trigonometry \& modelling <br> Applications of forces <br> Further kinematics | Parametric equations <br> Differentiation <br> Numerical Methods <br> Regression, correlation \& hypothesis testing Conditional probability | Integration Vectors <br> The normal distribution | Revision Exams | Revision Exams |

