The Holy Family Catholic School
a voluntary academy

GCSE Mathematics

FOUNDATION 2024-2025

Learning Journey

Period 6 Interventions

Final exams

Bespoke Learning & Revision

Re-arranging Formulae Proof
Simultaneous equations
Types of Graphs
Vectors
Similarity & Congruence
Cylinders, pyramids, cones & spheres
Arcs & Sectors
Circles
Area & Circumference

Trial exams

Solving quadratic equations
Quadratic Graphs
Plans & Elevations
Constructions, Loci & bearings
Speed, distance & time
Direct & Inverse Proportion
Compound measures

PAZ 1

Growth & decay
Percentage Change
Probability
Trigonometry
Transformations
Pythagoras' theorem

YEAR 11

Angle Reasoning
Angles in polygons
Geometric Patterns
Pythagoras & Trigonometry
Inequalities
Re-arranging Formulae
Sequences & nth term
Area & Perimeter
Write & use Ratio
Linear graphs
Averages & Range
Sampling
Percentages of amounts
Fractions & decimals
Fraction operations
Transformations
Fractions & percentages
Probability
Solving Equations
Scatter Graphs, Tables & Charts
Surface Area & Volume
Ratio & Measures
Proportion
Real-life & distance-time Graphs
Angle reasoning - parallel lines

YEAR 10

Use expressions & formulae
Expand brackets
Formulae
Expressions
Factorise
Index notation
Powers & Roots
HCF / LCM
Calculations
Number reasoning
Trigonometry
Similar Shapes
Congruency
Errors & bounds
Prisms & Cylinders
Pythagoras' Theorem
Circles
GCSE READY
Quadratic & non-linear graphs
Compound measures
Simultaneous equations
Straight Line graphs
Direct & Inverse Proportion

YEAR 9

Sequnces and nth term
Reflective symmetry with graphs
Equations of straight lines
Gradients
Direct proportion on graphs
Finance: percentage problems
Dealing with data
Percentage Change
Indices
Percentages
Calculations & Estimates
Presenting & Comparing data
Expressions & formulae
Standard Form
Equivalent proportions
Solving Equations
Fractions & Decimals
Index Laws Brackets
Mixed Numbers
Operations with fractions
Add, subtract, multiply fractions
Constructions & Loci
Divide fractions
Scales
Solve geometric problems
Angles in Polygons
Proportion
Probability
Angle Facts
Quadrilaterals
Ratio & Proportion with decimals
Calculations with decimals
Place Value
Order decimals & rounding
Misleading Graphs
Sequences
Real life & curved Graphs
Percentage Change
Inequalities & equations
Line Graphs
Enlargement - negative & fractional
Scatter Graphs
Conversion Graphs

YEAR 8

Lines & Angles
Transformations
Co-ordinates
Proportions with fractions & percentages
Ratio & Proportion
Probablity
Angles in triangles & quadrilaterals
Sequences Straight line graphs
Co-ordinates & Transformations
Perimeter & Area
Percentages
Fractions
Decimals & measures
Factors multiples, primes & squares
Money & Time
Volume
Area
Plans & Elevations
Surface Area
Calculations including negatives
Powers & roots
Multiples & factors
Algebraic powers
Expressions & brackets
Factorise
Solve one & two step equations
Simplify expressions with powers
Comparing Data
Stem & Leaf
Charts & Tables

YEAR 7

Negative numbers
Operations
Mental methods
Line graphs Bar charts
Displaying & Comparing Data
Grouping Data
Formulae
Averages & Range
Functions
Expressions
Baseline: Maths Test

Data

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HIGHER 2024-2025

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Final exams

Bespoke Learning & Revision

Direct & Inverse Proportion
Proof
Circle Theorems

Trial exams

Quadratic & Cubic Graphs
Sampling
Cumulative Frequency
Box Plots
Sine & Cosine Rules
Trigonometric Graphs

PAZ 1

Types of Graphs & their transformations
Vector Geometry
Re-arranging formulae
Algebraic Fractions
Surds
Graphical Inequalities
Histograms
Pythagoras & Trig in 3D
Similarity & Congruence

YEAR 11

Ratio & Proportion
Compound Measures
Growth & Decay
Conditional probability & venn diagrams
Independent Events - tree diagrams
Linear Inequalities
Simultaneous Equations - linear & quadratic
Quadratic & Cubic Graphs
Histograms
Cumulative Frequency / Box plots
Graphs
Graphical Inequalities
Trigonometric, Graphs
Congruence & similarity
Graphs
Surface Area & Volume
Inequalities
Pythagoras & Trigonometry
Angle Reasoning
Averages & range
Scatter diagrams
Statistical diagrams
Bearings & scale drawing
Transformations
Percentages
Fractions review
Expand double brackets
Sequences
Expand/ factorise
Rules of indices algebraicly
Index notation
surds
Ratio & proportion
Equations & Formulae
Constructions & Loci
Probability
Quadratic simultaneous equations
Multiplicative reasoning
Further Trigonometry

YEAR 10

Standard Form
Estimating
HCF / LCM
Number reasoning
Trigonometry
Errors & bounds
Pythagoras' Theorem
Similar Shapes
Congruency
Prisms & Cylinders
Circles
GCSE READY
Quadratic & non-linear graphs
Compound measures
Simultaneous equations
Straight Line graphs
Direct & Inverse Proportion
Percentage Change
Enlargement - negative & fractional
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Sequences

YEAR 9

Sequnces and nth term
Reflective symmetry with graphs
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Direct proportion on graphs
Finance: percentage problems
Percentage Change
Percentages
Divide fractions
Solve geometric problems
Quadrilaterals
Ratio & Proportion with decimals
Place Value
Misleading Graphs
Scatter Graphs
Conversion Graphs
Comparing Data
Stem & Leaf
Charts & Tables
Simplify expressions with powers
Factorise
Algebraic powers
Powers & roots
Area
Surface Area
Calculations including negatives
Multiples & factors
Expressions & brackets
Solve one & two step equations
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Calculations with decimals
Order decimals & rounding
Real life & curved Graphs
Line Graphs

YEAR 8

Co-ordinates
Proportions with fractions & percentages
Ratio & Proportion
Probablity
Transformations
Lines & Angles
Angles in triangles & quadrilaterals
Co-ordinates & Transformations
Sequences
Straight line graphs
Volume
Plans & Elevations
Area
Surface Area
Perimeter & Area
Percentages
Fractions
Decimals & measures
Factors multiples, primes & squares
Money & Time
Operations
Mental methods
Negative numbers
Line graphs
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Displaying & Comparing Data
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YEAR 7

Data