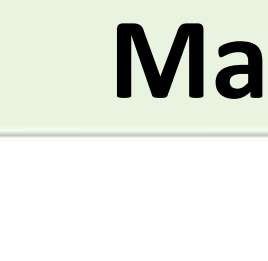
Mathematics KS4: Year 11 Set 1

CARDINAL NEWMAN CATHOLIC SCHOOL



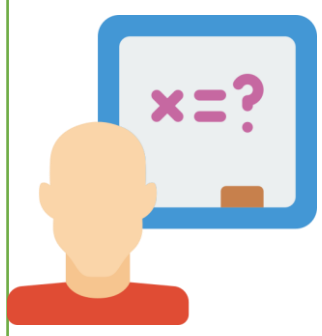
GCSE Maths exam

SUMMER 3:2

Revision

SUMMER 3:1

- Iterations
- Geometric/Fibonacci Sequences
- Sectors/Arc Length
- 3D Trig/Pythagoras
- Equation of a Circle
- Plans+Elevations
- Congruence
- Cirlce Theorem Proofs
- Constructions and Loci



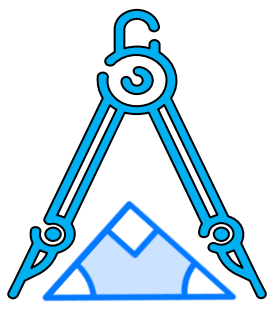
SPRING 2:2

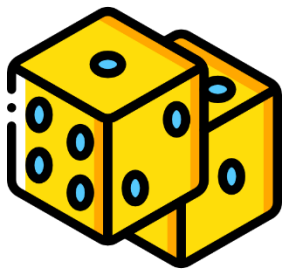
- Types of Graph/Solving Graphically
- Transformations of Graphs
- Probability/Venn Diagrams
- Advanced Trigonometry
- Vectors
- Similar Shapes
- Product Rule for Counting

SPRING 2:1

- Rearranging Formulae
- Factorising Quadratics
- Algebraic Fractions
- Proofs
- Volume/Surface Area
- Transformations

AUTUMN 1:2





AUTUMN 1:1

- Linear Inequalities
- Straight Line Graphs – Parallel/Perpendicular
- Compound Measures
- Gradient of Curve/Area Under Curve
- Functions
- Forming and Solving Equations

- Histograms
- Circle Theorems
- Recurring Decimals
- Surds
- Upper and Lower Bounds
- Quadratic Sequences
- Ratio
- Percentages

- Solving Quadratics
- Simultaneous Equations
- Completing the Square
- Direct/Inverse Proportion
- Scatter/Frequency Polygon
- Cumulative Frequency + Box Plot
- Estimating the Mean

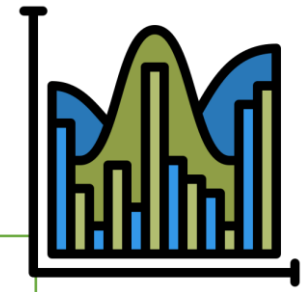
OUR LEARNING JOURNEY

Mathematics KS4: Year 11 Sets 2/3a

GCSE Maths exam

SUMMER 3:2

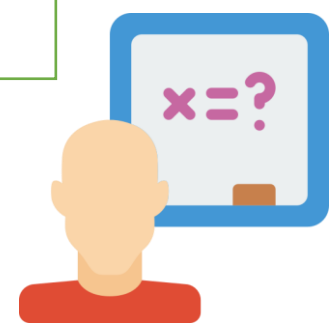
- Iterations
- Geometric/Fibonacci Sequences
- Proofs
- Completing the Square
- Simulatenous Equations Quadratic
- Similar Shapes



- Transformations of Graphs
- 3D Trigonometry/Pythagoras
- Vectors
- Inequalities on Graphs
- Constructions and Loci
- Revision

SUMMER 3:1

- Solving Quadratic Equations/Inequalities
- Gradient of a Curve/Area Under a Curve
- Algebraic Fractions
- Volume/Surface Area
- Circle Theorems
- Advacned Trigonometry
- Types of Graph



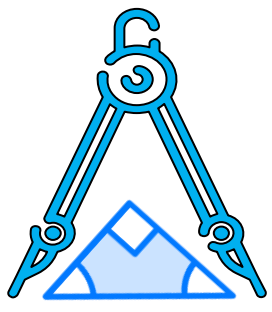
SPRING 2:2

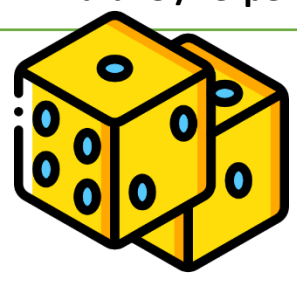
- Functions
- Percentages
- Quadratic Sequences
- Bounds
- Surds
- Direct/Inverse Proportion
- Parallel/Perpendicular Lines

SPRING 2:1

- Column Vectors
- Angles in Polygons
- Angles in Parallel Lines
- Histograms
- Averages
- Transformations
- Sectors/Arc Lenth – Area Problems

AUTUMN 1:2





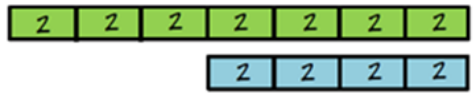
AUTUMN 1:1

- Compound Percentages
- Error Intervals
- Product Rule for Counting
- Ration
- Volume/Surface Area
- Pythagoras
- Trigonometry
- Circles – Area/Circumference

- Laws of Indices
- Simultaneous Equations
- Linear Sequences/Graphs
- Rearranging Formulae
- Prime Factors, HCF/LCM
- Decimals including recurring
- Fractions
- Standard Form

- Scatter Graphs/Frequency Polygons
- Estimating the Mean
- Cumulative Frequency/Box Plots
- Probability/Venn Diagrams
- Capture Recapture
- Compound Measures
- Expanding/Factorising
- Solving Linear Equations/Inequalities

OUR LEARNING JOURNEY



Mathematics KS4: Year 11 Set 3b/4/5

CARDINAL NEWMAN CATHOLIC SCHOOL

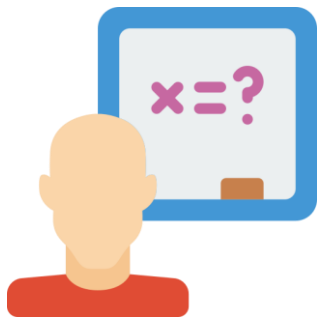
GCSE Maths exam

SUMMER 3:2

Revision

SUMMER 3:1

- Frequency Trees
- Transformations
- Plans + Elevations
- Ratio – Maps + Scales
- Angles in Regular Polygons
- Bearings



SPRING 2:2

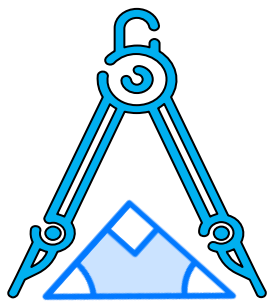
- Value for money questions
- Pie Charts
- Stem + Leaf Diagrams
- Combining Means
- Averages from a Frequency Table
- Percentage Increase/Decrease
- Reverse Percentages
- Two Way Tables

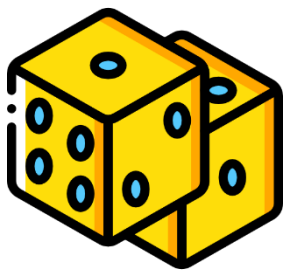
SPRING 2:1

- Column Vectors
- Angles in Polygons
- Angles in Parallel LinesPythagoras
- Trigonometry
- Circles – Area/Circumference

AUTUMN 1:2

- Compound Percentages
- Error Intervals
- Product Rule for Counting
- Ration
- Volume/Surface Area





AUTUMN 1:1

- Laws of Indices
- Simultaneous Equations
- Linear Sequences/Graphs
- Rearranging Formulae
- Prime Factors, HCF/LCM
- Decimals Fractions
- Standard Form

- Scatter Graphs/Frequency Polygons
- Estimating the Mean
- Probability/Venn Diagrams
- Capture Recapture
- Compound Measures
- Expanding/Factorising
- Solving Linear Equations/Inequaliti

OUR LEARNING JOURNEY