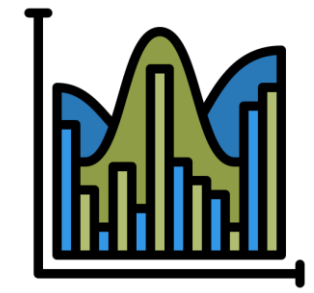
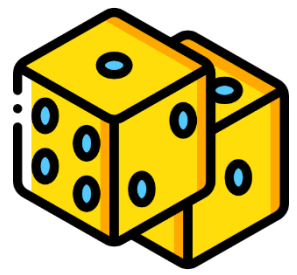
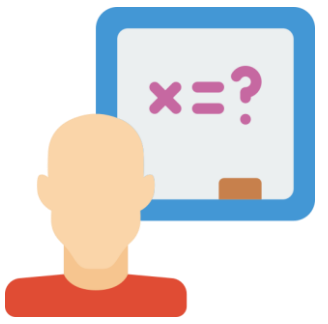
Mathematics KS4: Year 11 Higher Sets a1, b1 (25-26)

CARDINAL NEWMAN CATHOLIC SCHOOL







Exam Preparation

SUMMER 3:2

Exam Preparation

Exam Preparation

Grade 6-7 Revision Booklet

SUMMER 3:1

Grade 6-7 Revision Booklet

SPRING 2:2

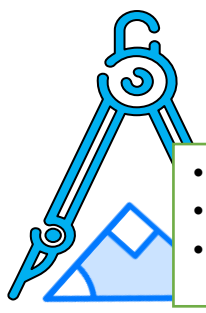
Grade 6-7 Revision Booklet

- Probability with algebra
- Circle Theorems proofs
- Inequalities on graphs
- Geometric and Fibonacci sequences with algebra

- Parallel and perpendicular lines
- Equation of a tangent to a circle
- Gradient of a curve and area underneath the curve
- Congruency
- Vectors

SPRING 2:1

- Proofs
- Non-linear simultaneous equations
- Quadratic inequalities
- Graph transformations
- Equation of a line though the given points



- Bounds
- Factorising harder quadratics
- Algebraic fractions

AUTUMN 1:2

- Completing the square
- Advanced trigonometry
- 3D Pythagoras and trigonometry
- Histograms
- Conditional probability
- Exponential and trigonometric graphs

- Solving quadratics by factorising
- Quadratic formula
- Functions
- Iteration
- Quadratic sequences

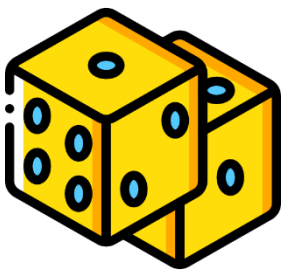
- Product rule for counting
- Repeated percentage change
- Similar shapes (area and volume)
- Circle Theorems
- Direct and inverse proportion

AUTUMN 1:1

OUR LEARNING JOURNEY

Mathematics KS4: Year 11 Higher Sets 2a,3a,2b (25-26)

CARDINAL NEWMAN CATHOLIC SCHOOL



Exam Preparation

SUMMER 3:2

Exam Preparation

Exam Preparation

Grade 6-7 Revision Booklet

SUMMER 3:1

Grade 6-7 Revision Booklet

SPRING 2:2

- Advanced trigonometry
- Completing the square
- Algebraic fractions
- Proofs
- Quadratic inequalities

- Non-linear simultaneous equations
- Spheres and cones

- Circle Theorems
- Iteration
- Similar shapes
- Bounds
- Solving quadratics by factorising
- Quadratic formula

SPRING 2:1

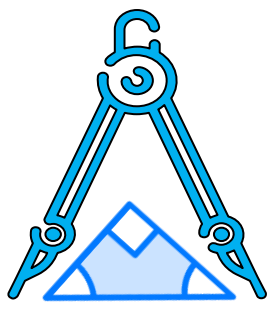
- Linear inequalities
- Speed, distance, time
- Mass, density, volume
- Direct and inverse proportion
- Rearranging harder formulae
- Gradient and area underneath the curve
- Surds
- Histograms
- Area of a sector and arc length

AUTUMN 1:2

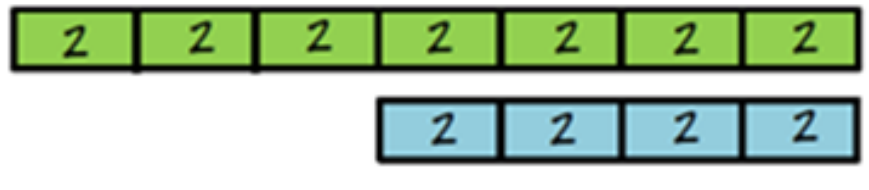
- Percentages
- Quadratic sequences
- Combine/reverse mean
- Functions
- Forming and solving equations
- Angles in parallel lines

Grade 3-5 Revision booklet

AUTUMN 1:1

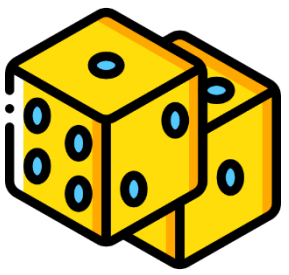


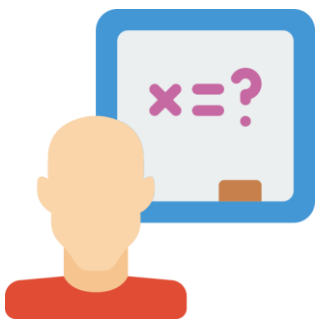
OUR LEARNING JOURNEY



Mathematics KS4: Year 11 Higher Set 3b (25-26)

CARDINAL NEWMAN CATHOLIC SCHOOL





Exam Preparation

SUMMER 3:2

Exam Preparation

Exam Preparation

Exam Preparation

SUMMER 3:1

Grade 6-7 Revision Booklet

SPRING 2:2

Grade 6-7 Revision Booklet

- Areas for improvement as indicated by the mock assessment results

- Areas for improvement as indicated by the mock assessment results

SPRING 2:1

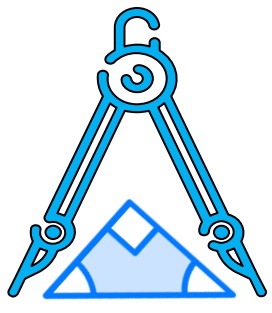
- Mass, density, volume
- Functions
- Percentages
- Inequalities
- Speed, distance, time
- Combine/reverse mean
- Linear sequences
- Quadratic sequences

AUTUMN 1:2

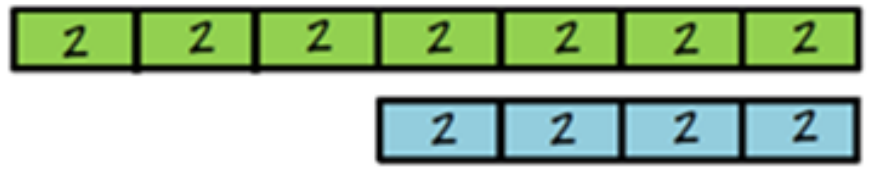
- Cumulative Frequency
- Box Plots
- Scatter graphs
- Estimating mean
- Frequency polygons
- Angles in parallel lines

Grade 3-5 Revision Booklet

AUTUMN 1:1

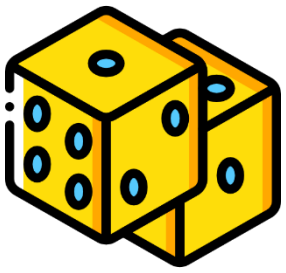


OUR LEARNING JOURNEY



Mathematics KS4: Year 11 Foundation
Sets a4,a5,b4 (25-26)

CARDINAL NEWMAN CATHOLIC SCHOOL



Exam Preparation

SUMMER 3:2

Exam Preparation

Grade 3-5 Revision Booklet

Grade 3-5 Revision Booklet

SUMMER 3:1

- Real-life graphs
- Probability – relative frequency
- Nth term of a linear sequence
- Fibonacci sequences

SPRING 2:2

- Forming expressions
- Forming and solving equations
- Multiplying and dividing decimals
- Pie charts
- Scatter graphs
- Frequency polygons

SPRING 2:1

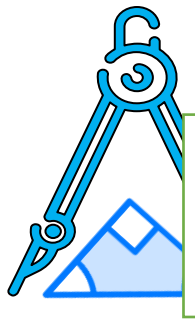
- Product of primes including HCF and LCM
- Laws of indices
- Linear inequalities
- Volume and surface area

- Averages from frequency tables (including grouped)
- Composite bar charts
- Simple and compound interest
- Percentage change
- Error intervals

- Direct proportion (e.g. recipe problems)
- Inverse proportion (work rate problems)
- Similar shapes
- Sectors (area, arc length, perimeter)
- Pythagoras
- SOH CAH TOA
- Area of a trapezium and compound shapes
- Solving equations

AUTUMN 1:2

- Column vectors
- Probability trees
- Venn diagrams
- Ratio and fraction problems
- Combining ratios
- Simultaneous equations



- Finding the equation of a line from its graph
- Angles in parallel lines
- Angles in polygons

AUTUMN 1:1

- Expanding double brackets
- Factorising quadratics
- Solving quadratics by factorising
- Quadratic graphs
- Cubic and reciprocal graphs
- Changing the subject of a formula

- Standard form conversions
- Calculations with standard form
- Reverse percentages
- Speed, distance, time
- Mass, density, volume
- Pressure, force, area

OUR LEARNING JOURNEY