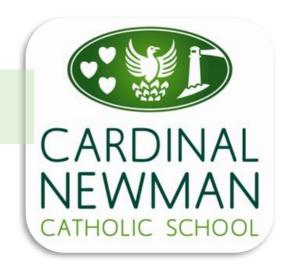
Mathematics KS3: Year 9 (25/26)



- Quartiles
- **Box Plots**
- Cumulative frequency



SUMMER 3:2

Standard Form

- Change from ordinary numbers to standard form and vice versa
- Standard Form Calculations

Equations:

- Review solving equations
- Solving simultaneous equations graphically
- **Solving Simultaneous**
- equations algebraically

Trigonometry

- Trigonometric Ratios
- Missing Sides Missing Angles
- 3D trigonometry

Pythagoras Theorem

- **Applying Pythagoras**
- Applying Pythagoras in real life
- Distance between two points on a grid

SPRING

2:2

3D Pythagoras

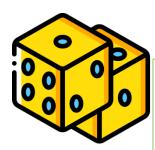
Combined Transformations

- Enlargement
- Reflection
- Translation
- Rotation

Graphs

- Using y = mx + c
- Find y = mx + c from point(s) on graph
- Plotting quadratic graphs from a table
- Solving quadratics using the graph





Ratio Proportion

- Sharing in ratio
- Combined ratio
- Work rate
- Best buys

Percentages

- Recap percentages
- Repeated percentage change
- Reverse percentages
- Compound/ Simple interest comparison

Averages

- Averages from a table
- Averages from grouped data
- Quartiles





Inequalities

- Represent inequalities
- Writing inequalities
- Listing integers
- Solving inequalities

Equations

- Solve 1 and 2 step equations
- Variables on both sides
- Form equations: shape

Compound Measures

- **Distance Time Graphs**
- Speed
- Density
- Pressure
- Rates of Pay

SPRING

2:1

Charts and Diagrams

- Pie Charts
- Scatter graphs
- Frequency Polygons
- Stem & leaf

Algebraic Manipulation

- Collect like terms
- Expand and factorise single
- Expand a pair of brackets
- Expand triple brackets
- Factorising quadratics

AUTUMN 1:2

Number and Indices

- **BIDMAS**
- Product of prime factors
- HCF, LCM
- **Rules of Indices**
- **Negative Indices**
- **Fractional Indices**
- **Area and Volume** Area and perimeter recap
- Circles recap Arc Length/Sectors
- Volume of Prisms
- Surface Area

Angles & Shapes

- Angle rules for points, lines, triangles
- Angles in parallel lines
- **Bearings**
- Interior and Exterior angles

Decimals & Fractions

- **Decimal operations**
- Fraction operations
- Conversions
- Worded problems
- Recurring decimals to fractions

Sequences

- Generate a sequence
- Find the nth term
- Fibonacci sequences
- Is a value in a given sequence
- **Geometric Sequences**
- **Quadratic Sequences**

AUTUMN

1:1

Key

Topics in green are for Set 1/2 only

2

