



ACADEMY  
GREAT BARR

# Curriculum Guide – Year 7 Mathematics

Curriculum Director: Mr A. Machin

## Members of Staff who teach Year 7:

- Miss L. Chamberlain (Assistant SENco)
- Mr B. Bekele (Learning Consultant)
- Mr C. Skinner (Learning Consultant)
- Miss F. Jeewa (Learning Consultant)
- Mrs P. Parker (Learning Consultant)

## What we do in year 7:

Approximate Dates	Big Question/ Theme	Key Learning Outcomes
Cycle 1	Am I a mathematician? Picture sequences, FUNctions and graphs. Pentominoes and Spacemen	Operations on integers (including BIDMAS) Multiples, Factors and Primes. Sequences and nth terms. Indices and Roots. Functions and Graphs. Transformations. Congruency and Symmetry. 2D Representations of 3D. Volume and Surface Area.
Cycle 2	Equable Shapes The Average Student Litov's Mean Value Theorem	Enlargement and Similarity Area and Perimeter Expressions and Formulae Graphs, Charts and Diagrams Using Averages Working with units - Reading and Measuring Ratio and Proportion Fractions, Decimals and Percentages Set Theory Decimal Calculations Rounding and Estimation
Cycle 3	The World of Work Building, Toys and Readability Euler's Formula	Real-life graphs Working with units Percentage Changes Probability 3-D Shapes
Cycle 4	Think of a Number Dotty Shapes, Logo and Roamer Arithmagons	Expressions and Formulae Forming and Solving Equations Negative Numbers Angles Geometrical Properties and Reasoning

For more information and guidance please visit...

[BBC Bitesize](#), [mymaths](#).



# Curriculum Guide – Year 8

## Mathematics

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### Members of Staff who teach Year 8:

- Mr C. Makin (Learning Consultant)
- Mr B. Bekele (Learning Consultant)
- Mr C. Skinner (Learning Consultant)
- Miss F. Jeewa (Learning Consultant)
- Mrs P. Parker (Learning Consultant)
- Miss C. Hopkins (KS3 and KS4 Coordinator)
- Miss F. Murphy (Intervention Coordinator)
- Mr M. Johal (KS5 Coordinator)

### What we do in year 8:

Approximate Dates	Big Question/ Theme	Key Learning Outcomes
Cycle 1	The Best Box To Spend or Save? Mobile Phone Contracts Exploring Calculations	Factors, Multiples and Primes Volume and Surface Area Representation of 3D shapes/ 3D shapes Sequences and nth terms Real-life Graphs Functions and Graphs Forming and Solving Equations Operations on integers and decimals Powers and Roots Rounding and estimation
Cycle 2	Record Breaking and Personal Challenge Circles, Pi and Pythagoras	Graphs, Charts and Diagrams Using Averages Reading and Measuring Fractions, Decimals and Percentages Construction and Loci Circles Pythagoras' Theorem
Cycle 3	At the Fair Ground Recipes and Cooking	Operations on Fractions Probability Set Theory Angles - Bearings and Direction Ratio and Proportion Geometrical Reasoning Working with units
Cycle 4	Using Letters Pointy Shapes Princess Dido Exploring Enlargement and Transformation	Forming and Solving Equations Expressions and Formulae Negative Numbers Coordinate Geometry Area and Perimeter Transformations - Enlargement and Similarity

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