



William Edwards School Mathematics Department Curriculum Journey

Ambition and intent: The mathematics curriculum builds up over 5 years, where pupils revisit topics each year, but in greater depth. The curriculum has been structured to ensure pupils have the mathematical skills required to succeed when facing more challenging mathematical concepts. Topics are interconnected, allowing pupils to regularly revise key concepts and deepen their knowledge and understanding as they progress through the years. The main aim is to have a good understanding of mathematical concepts through fluency, problem solving and mathematical reasoning, which will enable pupils to have an in-depth understanding of the GCSE syllabus. The topics pupils cover each year is broken down below.

Careers? University Study?

Grade 5 – Accounting
Engineering
Financial studies
Psychology

Grade 4 – 3D Design & Architecture
Biomedical science
Business and IT
Music performance and production

For those that have a head for figures, pursuing a job relating to mathematics is a choice that can add up to a rewarding and lucrative career. Whether you are using math to solve business problems or help an individual make investments the demand for mathematics experts has grown exponentially in a number of careers. Many college places require a 4+ in GCSE Mathematics

KS5

GCSE
Exam



YEAR
11h

Geometry

Probability and
Statistics

November mock
examination
with feedback
given

Exam Practice starts. One
GCSE paper per week, under
exam conditions, and
feedback of model answers
given by teacher

February final
mock examination
with feedback
given by teacher

Independent
study and
revision in the
build up to
final GCSE
examination

Geometry (3)

Algebra

Weekly revision sessions commence which are run by your class teacher covering key misconceptions and examination preparation

Multiplicative
Reasoning

Algebra (2)

Geometry (2)

Algebra (1)

Number

End of year
test consisting
of a full GCSE
examination

Probability and
Statistics

Algebra (3)

A unit assessment test is completed every half term.

YEAR
10h

YEAR
9h

Number

Expressions, Equations
and Formulae

Geometrical Properties
(1)

Probability and Statistics

Ratio and Proportion

End of year
test consisting
of 2 GCSE
examinations

Graphical
Representations

Geometrical Properties
(2)

End of year assessment
on all units

Constructions

Statistics and
Probability

Multiplicative
Relationships

Linear Equations

Graphical
Representations

Sequences

Estimation
and Rounding

Geometrical
Properties

Perimeter, Area and Volume

A unit assessment test is completed every half term.

YEAR
8h

End of year
assessment
on all units

Properties of
Number

Arithmetic
Procedures (2)

Expressions
and Equations

Standard
Form

Perimeter
and Area

Arithmetic
Procedures (3)

Transformations

Percentages
and FDP

Multiplicative
Relationships

Probability

A unit assessment test is completed every half term.

Arithmetic
Procedures (1)

Place Value,
and Properties
of Number

Baseline test,
identifies
ability and
gaps in KS2
skills set

YEAR
7h

We will speak to you and your
Primary schools to find out
what topics you have covered

KS2
PRIMARY
SCHOOL

Attend WES Transition
week. Complete CATS test
and learn about Problem
Solving in Maths.

Apply for a
place at WES

Lower KS2 pupils become fluent with whole numbers and the four operations including number facts and the concept of place value. Be able to solve a range of problems including fractions and decimals. Develop mathematical reasoning to analyze shapes and their properties

At KS1 pupils develop confidence and mental fluency with whole numbers, counting and place value. Develop their ability to recognise, describe, draw, compare and sort different shapes and use the related vocabulary.

Skills that pupils will learn during their curriculum journey that are required for Mathematics: Basic Numeracy skills built on the four operations. Decision making and problem solving. Graphical skills including the selection of appropriate graphs/charts and interpreting the results.

Your Learning Journey in MATHEMATICS