

Year 9 - Mathematics

Parental Booklet

2026-27

Welcome to the Maths Department at Cathays High School. In this booklet, you will find key information about what your child is going to be studying in Maths over the year and when their assessments are going to be throughout the year.

Members of the Maths Department:

Miss A Abdoolla - Raising Standards Leader for Mathematics and Numeracy

Mr A Phillips - Area Leader for Mathematics and Numeracy

Ms E Clune-Clarkson - Area Leader for Mathematics and Numeracy

Miss G Murray - Head of Inclusion and Wellbeing/Teacher of Mathematics and Numeracy

Mr S Mrowiec - Teacher of Mathematics and Numeracy

Mrs S Pearson - Teacher of Mathematics and Numeracy

Mr M Ferreira de Lima - Teacher of Mathematics and Numeracy

Ms K Brown - Teacher of Mathematics and Numeracy

Mr L Tuckett - Teacher of Mathematics and Numeracy

Mr M Hunt - Teacher of Mathematics and Numeracy

Contents

Assessment Dates	2
Homework	2
Equipment	2
Curriculum.....	4
Additional Resources	5

Assessment Dates

Date	Assessment
W/C: 12 th October	Block 1 Assessment - Written
W/C: 30 th November	Block 2 Assessment - MathsWatch
W/C: 1 st February	Block 3 Assessment - Written
W/C: 5 th April	Block 4 Assessment - MathsWatch
W/C: 17 th May	Block 5 Assessment - Written
F/C: 5 th July	Block 6 Assessment - MathsWatch
Throughout the year	Pupils will complete government mandated National Numeracy Tests and a National Reasoning Test.

Homework

Year 9 pupils will be set online homework once per week (every **Thursday [9ab]** or **Wednesday [9cd]**) on [MathsWatch](#).

This homework is compulsory and allows pupils to develop their understanding of a range of numeracy topics. Please encourage pupils to achieve the highest percentage possible as this shows whether they are secure in those skills.

Pupils can access the website via google login by using their school emails.

Equipment

Please ensure pupils attend Maths lessons with the following equipment:

- Pen
- Pencil
- Ruler
- Scientific Calculator (suitable examples are listed below)

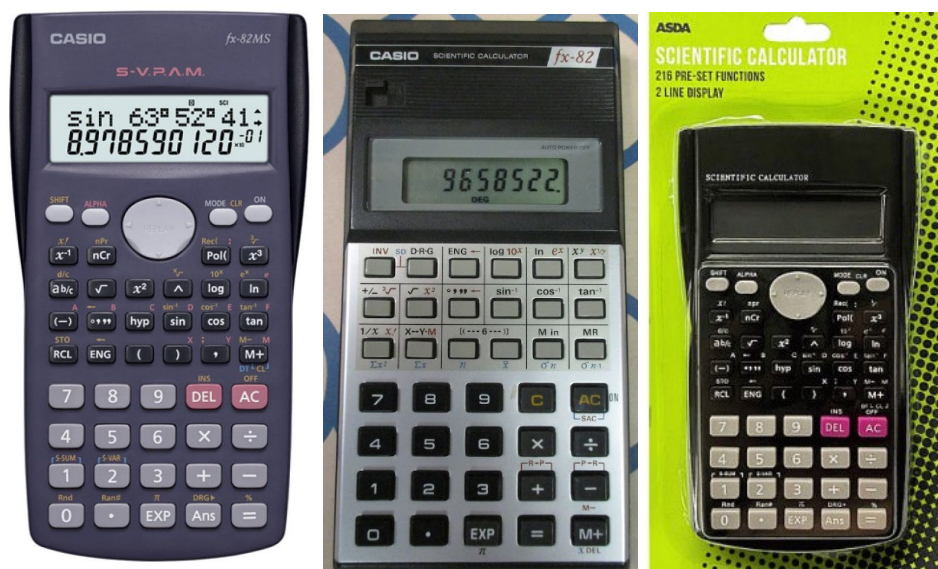
Optional but useful equipment:

- Rubber
- Compass and protractor (Geometry set)

Below are some examples of suitable Scientific Calculators:



Here are some examples of calculators that are not suitable as they are missing some functions:



Curriculum

Throughout Mathematics & Numeracy lessons pupils will focus on developing the five main mathematical proficiencies: Conceptual understanding, communication using symbols, fluency, logical reasoning and strategic competence as well as literacy and digital skills.

Pupils are following a scheme of work which will allow them to develop a passion for Mathematics & Numeracy whilst linking their learning to the real world around them. All lessons will focus on the four main purposes as well the What Matters statements for the Mathematics & Numeracy Area which make reference to number, algebra, geometry and statistics. Pupils will also develop their reasoning and problem-solving skills.

Pupils will be taught a range of topics throughout the year, which are split into the following 6 blocks:

Block 1

- Indices
- Standard form (converting to and from)
- Multiplication (of decimals)
- Division (of decimals by a 1-digit number)
- Highest Common Factor (HCF) and Lowest Common Multiple (LCM)
- Metric to imperial unit conversions

Block 2

- Recipes (including unit conversions)
- Percentage increase/decrease
- Area of a circle
- Area of shapes
- Surface area
- Volume

Block 3

- Adding and subtracting fractions
- Multiplying and dividing fractions
- Ratio problems
- Probability tree diagrams
- Angle facts - parallel lines
- Bearings

Block 4

- Expanding brackets (double)
- Factorising
- Forming and solving equations
- Forming and solving inequalities
- Find the n th term of a sequence
- Using the n th term (substitution)

Block 5

- Changing the subject of a formula
- Questionnaires
- Interpreting pie charts
- Averages
- Scatter graphs
- Understand and use the equation of a straight line ' $y=mx+c$ '

Block 6

- Pythagoras' Theorem
- Theoretical Probability, Experimental Probability and Expected Amounts
- Profit and Loss (including percentage profit/loss)
- Translations
- Reflections
- Enlargements

Additional Resources

There are a range of different websites which pupils can use to develop their numeracy skills. Here is a list of some we suggest:

- **Mathswatch** - Provides pupils with videos and accompanying practice questions on a range of different topics
- **CorbettMaths** - Videos and worksheets on every topic in Mathematics
- **BBC Bitesize** - Information sheets with accompanying quizzes to test pupils' understanding on a range of different topics
- **YouTube** - A range of mathematical videos on any topic the pupil chooses to search for