



HAILEY HALL SCHOOL

Believe | Strive | Achieve

Hailey Hall School Maths Curriculum Map

Maths Curriculum - Intent

We believe mathematical intelligence is expandable, and that every child can learn mathematics, given the appropriate learning experiences within and beyond the classroom. Our curriculum map reflects our high expectations for every child. Every student is entitled to master the key mathematical content for their age, by receiving the support and challenge they specifically need.

Our curriculum has three key principles

1. Deep Understanding

Our practice embeds the importance of deep understanding, as equating progress with learning new procedures and rules means many students will miss out on a depth of understanding. We achieve this by allowing the pupils to represent concepts in a variety of different ways using both objects and pictures. We also support the development of functional memory using a spiral curriculum, allowing pupils to revisit topics in greater depth each year.

2. Mathematical thinking

We believe that it is essential for students to develop mathematical thinking in and out of the classroom to fully master mathematical concepts. We want students to think like mathematicians, not just DO the maths. We believe that during the learning experience students should; explore, wonder, question, conjecture, experiment and make theories in order to guide their own journey

3. Mathematical Language

We believe that pupils should be encouraged to use mathematical language throughout their learning to deepen their understanding of concepts.

The way students speak and write about mathematics has been shown to have an impact on their success in mathematics. We therefore use a carefully sequenced, structured approach to introducing and reinforcing mathematical vocabulary throughout our lessons, so students have the opportunity to work with word problems from the beginning of their learning.

Alongside these three key principles, problem solving is at the heart of mathematics. By structuring our curriculum so that all students in a year group are learning the same content at the same time, they have longer to focus on each topic. Our aim is to create the optimal conditions for students to learn through problem solving and to learn to solve problems to develop lifelong transferable skills

Throughout our curriculum we also aim to ensure our pupils gain a love and appreciation for all the mathematics around them and will fully enjoy mathematics

Why this subject is important:

- A good level of numeracy is required for all jobs.
- A good qualification in mathematics shows you can think quickly.
- A good qualification in mathematics shows you are able to solve problems.
- A good qualification in mathematics will often mean a higher salary when you start work.

How parents / carers can help:

Provide them with a quiet place to do homework and revision, assisting with home learning where possible, practicing times tables regularly.

Useful websites:

Mathswatch, BBC Bitesize, Corbett Maths.

Progression routes and career opportunities:

You will need mathematics qualifications for all jobs, whatever you apply for. Some jobs that especially need mathematics are:

Accountancy, Games designer, Engineering, Police, Pilot, Architect, Doctor and Scientist.

Who to contact and how if you have a query regarding your child:

Name	Position	Email Address	Telephone
Mrs Sarah Crabtree	Maths Coordinator	scrabtree@haileyhall.herts.sch.uk	01992 465208

Curriculum Maps by year

The overview from White Rose Mathematics is given for each year.

The curriculum maps are currently under construction and will be completed by September 2026 to include a more detailed breakdown of each topic area.

Year 7

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Algebra Sequences VIEW	Free trial	Algebra Algebraic notation and substitution VIEW		Algebra Expressions and equations VIEW		Number Place value, ordering and rounding VIEW		Number Four operations VIEW		Statistics Averages and range VIEW	Number Rounding and estimation VIEW
Spring	Statistics Graphing data VIEW			Number Fractions, decimals and percentages VIEW			Number Directed number VIEW		Number Fractions and percentages of amounts VIEW		Geometry and measures Perimeter and area VIEW	
Summer	Number Speed, distance and time VIEW			Number Properties of number VIEW			Number Add and subtract fractions VIEW			Geometry and measures Angles and polygons VIEW		

Year 8

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Ratio, proportion and rates of change Ratio VIEW	Ratio, proportion and rates of change Proportion and scale VIEW	Ratio, proportion and rates of change Proportion and scale VIEW	Algebra Algebraic manipulation VIEW	Algebra Coordinates and graphs VIEW	Algebra Coordinates and graphs VIEW	Algebra Coordinates and graphs VIEW	Algebra Coordinates and graphs VIEW	Number Multiply and divide fractions VIEW	Number Multiply and divide fractions VIEW	Geometry and measures Symmetry and reflection VIEW	Geometry and measures Symmetry and reflection VIEW
Spring	Geometry and measures Area, volume and density VIEW	Geometry and measures Area, volume and density VIEW	Algebra Equations and inequalities VIEW	Algebra Equations and inequalities VIEW	Number Percentages VIEW	Number Percentages VIEW	Algebra Indices VIEW	Algebra Indices VIEW	Number Standard form VIEW	Number Standard form VIEW	Statistics Interpret and represent data VIEW	Statistics Interpret and represent data VIEW
Summer	Geometry and measures Angles in parallel lines and polygons VIEW	Geometry and measures Angles in parallel lines and polygons VIEW	Probability Tables and probability VIEW	Probability Tables and probability VIEW	Probability Tables and probability VIEW	Probability Tables and probability VIEW	Geometry and measures Circles VIEW	Geometry and measures Circles VIEW	Statistics Graphs and charts VIEW	Statistics Graphs and charts VIEW	Algebra Sequences VIEW	Algebra Sequences VIEW

Year 9

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number Properties of number VIEW	Free trial Number Percentages VIEW		Geometry and measures Area and volume VIEW		Algebra Equations, inequalities and formulae VIEW		Number Fractions VIEW	Ratio, proportion and rates of change Rates VIEW		Number Standard form VIEW	
Spring	Number Maths and money VIEW		Algebra Straight line graphs VIEW		Ratio, proportion and rates of change Ratio and proportion VIEW		Geometry and measures Constructions and congruence VIEW		Geometry and measures Similarity VIEW	Algebra Algebraic manipulation VIEW		
Summer	Geometry and measures Pythagoras' theorem VIEW	Algebra Non-linear graphs VIEW		Probability Sets and probability VIEW		Geometry and measures Transformations VIEW		Algebra Simultaneous equations (optional block) VIEW		Geometry and measures Trigonometry (optional block) VIEW		

Year 10

Autumn

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

Algebra

Algebraic manipulation

[VIEW](#)

Free trial

Algebra

Equations, inequalities and formulae

[VIEW](#)

Algebra

Quadratic expressions and equations

[VIEW](#)

Number

Percentages

[VIEW](#)

Ratio, proportion and rates of change

Ratio and scale

[VIEW](#)

Number

Work with fractions

[VIEW](#)

Spring

Number

Non-calculator methods

[VIEW](#)

Algebra

Straight line graphs

[VIEW](#)

Probability

Probability

[VIEW](#)

Number
Rounding and estimation

[VIEW](#)

Geometry and measures

Perimeter, area and volume

[VIEW](#)

Statistics

Interpret and represent data

[VIEW](#)

Algebra
Non-linear graphs

[VIEW](#)

Summer

Geometry and measures

Angles

[VIEW](#)

Statistics

Graphs and diagrams

[VIEW](#)

Geometry and measures

Vectors

[VIEW](#)

Number

Factors, powers and surds

[VIEW](#)

Geometry and measures

Pythagoras' theorem and trigonometry

[VIEW](#)

Algebra

Simultaneous equations

[VIEW](#)

Year 11

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Ratio, proportion and rates of change Ratio and proportion VIEW	Free trial Geometry and measures Area and volume VIEW	Geometry and measures Similarity and congruence VIEW	Algebra Sequences and proof VIEW	Number Standard form VIEW	Geometry and measures Work with circles VIEW	Probability Set notation and Venn diagrams VIEW					
Spring	Algebra Functions and graphs VIEW	Algebra Equations and formulae VIEW	Ratio, proportion and rates of change Rates VIEW	Geometry and measures Angles, bearings and trigonometry VIEW	Geometry and measures Constructions and loci VIEW	Geometry and measures Transformations VIEW						
Summer	Revision Question banks VIEW	Revision Practice papers VIEW	Revision Pre-exam workshops VIEW	Examinations								