



Middlewich High School



QUALITY OF EDUCATION

Maths Department

Curriculum Rationale

The Curriculum rationale of the Maths department is outlined below. These are the principles that shape our intent, implementation and intended impact of our subject area on the wider Middlewich High School Curriculum. We believe that every pupil, regardless of ability or background, should expect the same consistently high-quality education in every lesson taught by every teacher across our Curriculum team.

<p>Our Vision and Values for our Subject are:</p>	<p>Vision and Values:</p> <ul style="list-style-type: none"> ● Every child feels supported and challenged and has the opportunity to succeed. ● Students develop understanding and confidence in Numeracy. ● Students develop the ability to think Mathematically inside the classroom and beyond ● Problem solving skills are explored, developed and applied in lessons. These transferable skills are invaluable to our students. ● High expectations and aspiration for every student ● Students feel safe to fail so that they can succeed.
<p>Our rationale for teaching what we teach is as follows:</p>	<p>KS3:</p> <ul style="list-style-type: none"> ● Build strong foundations in Algebra ● Develop understanding of properties of shapes ● Secure understanding of number and apply this throughout other areas of Maths ● Become more independent in representing and analysing data <p>KS4:</p> <ul style="list-style-type: none"> ● Develop algebra skills and apply them in different contexts ● Learning problem solving skills and applying formula in geometry questions. ● Develop understanding and range of skills to represent and analyse data,
<p>The principles that shape our Key Stage Three Curriculum are:</p>	<ul style="list-style-type: none"> ● Building strong foundations in all areas of mathematics to prepare for the more challenging KS4 curriculum. ● Using incremental steps to develop understanding and recall key skills and prior learning to prevent cognitive overload. ● Building students confidence to approach more challenging questions secure in their understanding of the skills required. ● Fostering love of Maths.

<p>The principles that shape our Key Stage Four Curriculum are:</p>	<ul style="list-style-type: none"> ● Ensuring the very best outcomes for every student, with transferable problem solving skills, applicable numeracy skills and aspirational GCSE results. This combination of assets equips our students to access their choice of post 16 options and careers. ● The curriculum builds on the foundations laid in KS3 to provide a cohesive, accessible and ambitious learning journey for all students.
<p>Our Pupil Promise: You will see the following in our lessons:</p>	<ul style="list-style-type: none"> ● Pupil's thinking mathematically. ● Pupil's engaging ● Pupil's talking about maths using mathematical vocabulary ● Assessment and feedback to promote progress for all ● Support and challenge for all students
<p>Cultural Capital we offer our pupils through our Curriculum is as follows:</p>	<ul style="list-style-type: none"> ● Access to inspiring post 16 options and careers ● Transferable problem solving skills ● Tangible skills to use in wider world
<p>Next Steps – Our aspirations. We intend that our pupils will leave us in Year 11 with the following skills and qualities.</p>	<ul style="list-style-type: none"> ● All students will be numerically confident ● Students have developed problem solving skills and the confidence to apply them in different contexts ● Students are able to, and desire to achieve in further education subjects and careers which require the application of Maths

The Mission Statement of the Maths Department

Our mission statement for Quality Education in our Department is outlined below.

We know that a solid understanding and confidence to apply Mathematics will ensure that our students are successful inside the classroom and beyond. This is why we strive to ensure that all students are supported and challenged to leave our school gates with their very best outcomes. Our ambitious curriculum, delivered through inspiring lessons, empowers our students to grow their confidence, ability and love of Mathematics.