

Year 7 RA	Year 8 KO	Year 9 NH	Year 10 CB	Year 11 BR
Overview of SOW (key topics/assessment pieces/knowledge)	Overview of SOW (key topics/assessment pieces/knowledge)	Overview of SOW (key topics/assessment pieces/knowledge)	Overview of SOW (key topics/assessment pieces/knowledge)	Overview of SOW (key topics/assessment pieces/knowledge)
<p>HT1</p> <p>Toolkit baseline</p> <p>UNIT 1 Place value – Base ten table</p> <p>UNIT 2 AND 3 Addition and Subtraction to include perimeter</p> <p>UNIT 4 Working with Decimals (addition and subtractions)</p> <p>HOMEWORKS ON UNIT 1,2,3, and 4</p> <p>TFI 1 and 2</p> <p>R and R test HT1</p> <p>Toolkit 7.1</p>	<p>HT1</p> <p>Unit 1 Factors, multiples and primes.</p> <p>Unit 2 Calculating with fractions</p> <p>HOMEWORKS ON UNIT 1,2</p> <p>TFI 12 and 13</p> <p>R and R test HT1</p> <p>Toolkit 8.1</p>	<p>HT1</p> <p>Baseline Keyskills test</p> <p>UNIT 1 Number, indices HCF, LCM</p> <p>UNIT 2 Areas of 2D shapes, Circles and Surface area and volume</p> <p>HOMEWORKS ON UNIT 1,2</p> <p>TFI 1 and 2</p> <p>Assessment 1 on the key topics in HT1</p> <p>Keyskills test 9.1</p>	<p>HT1</p> <p>Exam Essentials baseline</p> <p>UNIT 13 Ratio And proportion</p> <p>UNIT 14 Congruence and transformations</p> <p>UNIT 15 Indices and surds</p> <p>HOMEWORKS ON UNIT 13,14,15</p> <p>TFI 13,14,15</p> <p>Assessment 7 on the key topics in HT1</p> <p>Exam Essentials 10.1</p>	<p>HT1</p> <p>Exam Essentials baseline</p> <p>Unit 28 Circles and cylinders</p> <p>Unit 29 Direct Proportion and Ratio</p> <p>Unit 30 Vectors</p> <p>Unit 31 Tree diagrams</p> <p>Unit 28 Cones and spheres</p> <p>Unit 29 Direct and inverse proportion</p> <p>Unit 30 Vectors</p> <p>Unit 31 Tree diagrams</p> <p>HOMEWORKS ON UNIT 28,29,30,31</p> <p>TFI 28,29,30,31</p> <p>Assessment 13. Topics from HT1</p> <p>Exam Essentials 10.1</p>
<p>HT2</p> <p>UNIT 5 AND 6 Multiplication and division to include area</p> <p>UNIT 7 AND 8 Working with decimals (multiplication and division)</p> <p>HOMEWORKS ON UNIT 5,6,7,and 8</p> <p>TFI 3 and 4</p> <p>R and R test HT2 (HT1 and HT2 work)</p> <p>Toolkit 7.2</p>	<p>HT2</p> <p>Unit 3 Positive and negative numbers.</p> <p>Unit 4 Sequences, expressions and equations</p> <p>HOMEWORKS ON UNIT 3 and 4</p> <p>TFI 14 and 15</p> <p>R and R test HT2 (HT1 and HT2 work)</p> <p>Toolkit 8.2</p>	<p>HT2</p> <p>UNIT 3 Index Laws, Expanding and Factorising</p> <p>UNIT 4 Rounding and Estimation</p> <p>UNIT 5 Substitution and solving equations</p> <p>HOMEWORKS ON UNIT 3,4,5</p> <p>TFI 3,4 AND 5</p> <p>Assessment 2 on the key topics in HT2</p> <p>Keyskills test 9.2</p>	<p>HT2</p> <p>UNIT 16 Rearranging and substitution</p> <p>UNIT 17 Pythagoras</p> <p>UNIT 18 Estimation, bounds and value for money</p> <p>UNIT 17 Pythagoras and Trig</p> <p>UNIT 18 Algebraic fractions and recursive formulae</p> <p>HOMEWORKS ON UNIT 16,17,18</p> <p>TFI 16,17,18</p> <p>Assessment 8 on the key topics in HT2</p> <p>Exam Essentials 10.2</p>	<p>HT2</p> <p>Unit 32 Straight line graphs</p> <p>Unit 33 Surds</p> <p>Unit 34 Sequences</p> <p>Unit 32 Function notation</p> <p>Unit 33 Time series graphs</p> <p>Unit 34 Sequences</p> <p>HOMEWORKS ON UNIT 32,33,34</p> <p>TFI 32,33,34</p> <p>Assessment 14. Topics from HT2</p> <p>Exam Essentials 10.2</p> <p>MOCK EXAM SERIES ???</p>
<p>HT3</p> <p>UNIT 9 Working with units</p> <p>UNIT 10 Angles and angle properties of</p>	<p>HT3</p> <p>UNIT 5 Angle properties.</p> <p>UNIT 6 Length and area</p>	<p>HT3</p> <p>UNIT 6 Sampling and Averages</p> <p>UNIT 7 Fractions</p>	<p>HT3</p> <p>UNIT 19 Expanding and factorising</p> <p>UNIT 20 Bearings and constructions</p>	<p>HT3</p> <p>Unit 35 Trig</p> <p>Unit 36 Sets and venn diagrams</p>

<p>straight lines  <b>UNIT 11</b> Properties of triangles  <b>UNIT 12 AND 13</b> Properties of quadrilaterals</p> <p>HOMEWORKS ON UNIT 9,10,11,12,13</p> <p>TFI 5 and 6</p> <p>R and R test HT3(HT1,2,3 work)</p> <p>Toolkit 7.3</p>	<p>HOMEWORKS ON UNIT 5,6</p> <p>TFI 16 and 17</p> <p>R and R test HT3(HT1,2,3 work)</p> <p>Toolkit 8.3</p>	<p>HOMEWORKS ON UNIT 6,7</p> <p>TFI 6 AND 7</p> <p>Assessment 3 on the key topics in HT3</p> <p>Keyskills test 9.3</p>	<p><b>UNIT 21</b> Quadratics  <b>UNIT 19</b> Circle theorem</p> <p>HOMEWORKS ON UNIT 19,20,21</p> <p>TFI 19,20,21</p> <p>Assessment 9 on the key topics in HT3</p> <p>Exam Essentials 10.3</p>	<p><b>Unit 37</b> Simultaneous equations  <b>Unit 35</b> Trig graphs  <b>Unit 36</b> Sets  <b>Unit 37</b> Equations of circles</p> <p>HOMEWORKS ON UNIT 35,36,37</p> <p>TFI 35,36,37</p> <p>Assessment 15. Topics from HT3</p> <p>Exam Essentials 10.3</p> <p>MOCK EXAM SERIES???</p>
<p>HT4</p> <p><b>UNIT 14</b> Understand and use equivalent fractions  <b>UNIT 15</b> Fractions of amounts  <b>UNIT 16</b> Multiply and divide fractions</p> <p>HOMEWORKS ON UNIT 14,15,16</p> <p>TFI 7 and 8</p> <p>R and R test HT4( HT1,2,3 , 4 work)</p> <p>Toolkit 7.4</p>	<p>HT4</p> <p><b>UNIT 7</b> Percentage change  <b>UNIT 8</b> Ratio and rate</p> <p>HOMEWORKS ON UNIT 7,8</p> <p>TFI 18 and 20</p> <p>R and R test HT4(HT1,2,3,4 work)</p> <p>Toolkit 8.4</p>	<p>HT4</p> <p><b>UNIT 8</b> Angle properties  <b>UNIT 9</b> SEQUENCES  <b>UNIT 10</b> Handling data</p> <p>HOMEWORKS ON UNIT 8,9,10</p> <p>TFI 8,9 and 10</p> <p>Assessment END OF YEAR 9 (TEST 4 AND 5) on the key topics in HT4</p> <p>Keyskills test 9.4</p>	<p>HT4</p> <p><b>UNIT 22</b> Data Handling  <b>UNIT 23</b> Solving inequalities  <b>UNIT 24</b> Standard form  <b>UNIT 24</b> Sine and cosine rule  <b>3D Trig Taught first</b></p> <p>HOMEWORKS ON UNIT 22,23,24</p> <p>TFI 22,23,24</p> <p>Assessment 10 on the key topics in HT4</p> <p>Exam Essentials 10.4</p>	<p>HT4</p> <p>Past papers/misconceptions and revision</p> <p>Exam Essentials 10.4</p>
<p>HT5</p> <p><b>UNIT 17</b> Order of operations  <b>UNIT 18</b> Introduction to algebra (simplify, expand and factorise)</p> <p>HOMEWORKS ON UNIT 17,18</p> <p>TFI 9 and 10</p> <p>R and R test HT5( HT1,2,3 , 4 ,5 work)</p> <p>Toolkit 7.5</p>	<p>HT5</p> <p><b>UNIT 9</b> Rounding.  <b>UNIT 10</b> Circles  <b>UNIT 11</b> 3D shapes and nets  <b>UNIT 12</b> Surface area and volume</p> <p>HOMEWORKS ON UNIT 9,10,11,12</p> <p>TFI 21 and 22</p> <p>R and R test HT5( HT1,2,3 , 4 ,5 work)</p> <p>Toolkit 8.5</p>	<p>HT5</p> <p><b>FINANCE UNIT - NEW set 4,5,6,7</b>  <b>Trig - NEW set 1,2,3</b></p> <p>Keyskills test 9.5</p>	<p>HT5</p> <p><b>UNIT 25</b> Quadratic and cubic Graphs  <b>UNIT 26</b> Unit conversions, harder 3D problems  <b>UNIT 27</b> Percentage problems and interest  <b>UNIT 25</b> Simultaneous quadratics and graphs of functions  <b>UNIT 26</b> Converting units and harder areas</p> <p>HOMEWORKS ON UNIT 25,26,27</p> <p>TFI 25,26,27</p> <p>Assessment END OF YEAR 10 (TEST 11 AND 12)</p> <p>Exam Essentials 10.5</p>	<p>HT5</p> <p>Past papers/misconceptions and revision</p> <p>Exam Essentials 10.5</p>

<p>HT6</p> <p>Unit 20 Percentages Unit 21 Working with data</p> <p>HOMEWORKS ON UNIT 20,21</p> <p>TFI 11 and 12</p> <p>R and R test HT5( HT1,2,3,4,5,6 work)</p> <p>Toolkit 7.6</p>	<p>HT6</p> <p>UNIT 13 Statistics UNIT 14 Pythagoras' theorem NEW</p> <p>HOMEWORKS ON UNIT 13,14</p> <p>TFI 23 and 24</p> <p>R and R test HT5( HT1,2,3,4,5,6 work)</p> <p>Toolkit 8.6</p>	<p>HT6</p> <p>UNIT 11 Straight line graphs UNIT 12 Probability</p> <p>HOMEWORKS ON UNIT 11,22</p> <p>TFI 11 and 12</p> <p>Assessment 6 on the key topics in HT6</p> <p>Keyskills test 9.6</p>	<p>HT6</p> <p>Unit 28 Circles and cylinders Unit 29 Direct Proportion and Ratio Unit 30 Vectors Unit 31 Tree diagrams Unit 28 Cones and spheres Unit 29 Direct and inverse proportion Unit 30 Vectors Unit 31 Tree diagrams</p> <p>HOMEWORKS ON UNIT 28,29,30,31</p> <p>TFI 28,29,30,31</p> <p>Assessment 13. Topics from HT6</p> <p>Exam Essentials 10.6</p> <p>MOCK EXAM SERIES</p>	<p>HT6</p> <p>Past papers/misconceptions and revision</p> <p>Exam Essentials 10.6</p>
<p>Key topics: Number, Algebra, Geometry and Data</p>	<p>Key topics: Number, Algebra, Geometry and Data</p>	<p>Key topics: Number, Algebra, Geometry and Data</p>	<p>Key topics: Ratio and proportion, Data handling, algebra and number</p>	<p>Key topics: Algebra Revision Exam technique</p>

THE BIG PICTURE RECORDING [Recordings - OneDrive \(sharepoint.com\)](#)

Maths Front cover expectations [Watch 'Maths Front cover' | Microsoft Stream](#)

Maths Homework layout expectations - <https://web.microsoftstream.com/video/28a4fc21-ecac-42cb-9c4f-03f0ec5c9bf3>

Purple pen expectations [Watch 'Purple pen - Maths' | Microsoft Stream](#)

TFI and problem solving expectations

## SHARE MAT Mathematics Curriculum

### Intent

The aim of the SHARE MAT mathematics department is to provide the best opportunities for students to discover, develop and progress their understanding of maths. There is a focus on helping students to be ready for their own next steps in numeracy, regardless of ability and background, to prepare them for a happy and successful life in modern Britain.

Throughout the maths curriculum the focus on developing knowledge is constant, with all students given the tools and support to attain their potential. The Programme of Study is designed and tailored to ensure all students have access to the full rich curriculum regardless of their starting position.

The main aims of the curriculum are to:

- Develop fluent knowledge, skills and understanding of mathematical methods
- Acquire, select and apply mathematical techniques to solve problems
- Reason mathematically, make deductions and inferences and draw conclusions
- Comprehend, interpret and communicate mathematical information in a variety of forms appropriate to information and context
- Provide a strong foundation for further academic and vocational study and for employment.

### Implementation & principles

Students are setted on GL testing data to increase the effectiveness of bespoke teaching and to develop deeper knowledge, supporting students to succeed and progress. This setting is then regularly re-evaluated to ensure no student is left behind or their potential capped.

#### Key stage 3

The curriculum at KS3 follow the NC and is designed to support and develop maths key knowledge delivered at KS2 and broaden these skills further by adding greater depth and breadth to student understanding. The PoS is clear and allows for flexible teaching to maintain the very best progress and development. Students are assessed regularly to maintain an awareness of progress, allowing teachers to adapt their teaching to match students' needs.

#### Key stage 4

The curriculum at KS4 follows a similar spiral format as KS3 allowing for further development of the skills and knowledge required. Students follow a tiered pathway of Higher, Foundation or Access to further support and deepen progress. The tiers are aligned to allow movement between each pathway so as not to limit attainment, with student pathways being reassessed throughout maintaining fluid setting. The Access tier is designed to help students to access the foundation GCSE with a clear focus on building key knowledge and skills but without limiting the curriculum's breadth.

Further details

The curriculum across the Key stages is broken up into half term windows to maintain a deep and sustained level of knowledge throughout.

- Staff build upon what has been taught before to add new knowledge.
- Teachers clearly model key concepts and information.
- Teachers identify and check pupils understanding lesson by lesson and respond as required.
- Homeworks are used to help embed key ideas and follow up tasks are set as a direct result to fill gaps in confidence and knowledge.
- TFI (Time For Improvement) questions are used to further cement this knowledge into longer term understanding and to develop problem solving skills.
- Assessments are then used to review understanding and knowledge to date and teachers use an intervention week to identify key conceptions that have not been transferred to long term memory. This is then used to influence future planning.
- Students work to a clear yearly end point which further checks for this knowledge and understanding. The curriculum is formed into a spiral to allow the revisiting of topics to further build and support underlying ideas.
- Department CPD is a key part of sharing good practice and pedagogy across the department regularly challenging the quality of teaching
- Students who are isolating will have a 'X' for their lessons on SIMs. They will need to join the lesson via teams. Work completed at home should be submitted to assignments on teams