

1) The Faculty/Department Context and Line Management Structure:

FACULTY CONTEXT		
<i>Numbers in brackets indicate where corresponding whole school objectives are being achieved.</i>		
STAFF CODE	NAME	FACULTY RESPONSIBILITIES
MKE	Mark Kennedy	Head of Mathematics Faculty
KBU	Kathryn Buchanan	2 nd i/c with responsibility for KS4
SPR	Stuart Preston	KS5 joint curriculum leader
NRM	Nila Maisuria	KS3 Curriculum leader
MV	Meera Ved	Lead Practitioner Maths
JPA	Julie Pardoe	KS4 assistant curriculum leader
HS	Harsh Shah	Yr12 Mathematics and Enrichment leader
RJ	Risha Jobanputra	i/c ks3/4 intervention & pupil premium
ACH	Ashok Chakraborty	Teacher of Mathematics
AD	Anisah Dar	Teacher of Mathematics
SK	Sheila Koochi	Teacher of Mathematics
CR	Chitra Ravi	Teacher of Mathematics
TS	Tanja Schweitzer	Teacher of Mathematics
TAS	Tasneem Shaikhali	Teacher of Mathematics
CWI	Caroline Williams	Teacher of Mathematics
PA	Priyanka Ambasana	Teacher of Mathematics
MP	Maria Patel	School Direct trainee
PB	Pam Berkley	1 to 1 maths tutor
SF	Sarah Farmborough	Faculty admin support
Facilities:		
The Mathematics Faculty is well resourced with 12 specialist classrooms, each fitted with digital projection onto an interactive whiteboard. We also have 30 Learnpads for classroom use.(7)		

2) Curriculum Plans

Maths		
Year 7 & 8 (Key Stage 3)	<p>Students follow the Mathematics National Curriculum in Key Stage 3. (3) They are grouped by ability in Year 7 in three sets and in Year 8 in six sets. Work is differentiated to support and challenge all students (2), and schemes of work are designed to enable students to develop the skills required for the reformed GCSE syllabus (6). We have a strong focus on numeracy skills in Key Stage 3 ensuring students have mastery of basic skills. (3)</p> <p>Students will study the following units:</p> <ul style="list-style-type: none"> • Number • Algebra • Ratio, proportion, rates of change • Geometry and measure • Probability • Statistics <p>Students are also regularly required to assess their own learning and review their progress. Progress in Key Stage 3 is reported as attainment descriptors. Problems solving activities including worded problems are regularly used throughout the curriculum. One piece of homework is set weekly, on a piece of work linked to the topic studied in class.</p>	4 x 50 minute lessons per week
Year 9 (Key Stage 4)	<p>Students are divided into 4 ability sets on each side of the year group. We are following the EDEXCEL GCSE (9-1) 1MA1 course and the skills required for the new GCSE are embedded into all schemes of work (6):</p> <p>Students will study the following units:</p> <ul style="list-style-type: none"> • Number • Algebra • Ratio, proportion, rates of change • Geometry and measure • Probability • Statistics <p>Students are regularly assessed using GCSE criteria and problem solving tasks. Two individual or one longer piece of homework are set weekly, on work linked to the topic studied in class.</p>	4x 50 minute lessons per week
Year 10 (Key Stage 4)	<p>Students are now divided into 7 ability sets on each side of the year group. We are following the new EDEXCEL GCSE (9-1) 1MA1 course and the skills required for the new GCSE are embedded into all schemes of work (6):</p> <p>Students will study the following units:</p> <ul style="list-style-type: none"> • Number • Algebra • Ratio, proportion, rates of change • Geometry and measure • Probability • Statistics <p>Students are regularly assessed using GCSE criteria and problem solving tasks. Two individual or one longer piece of homework are set weekly on work linked to the topic studied in class and examination style questions.</p>	4 x 50 minute lessons per week in year 10
Year 11 (Key Stage 4)	<p>Students are divided into 7 ability sets on each side of the year group. We are following the new EDEXCEL GCSE (9-1) 1MA1 course and the skills required for the new GCSE are embedded into all schemes of work (6) :</p> <p>Students will study the following units:</p> <ul style="list-style-type: none"> • Algebra • Geometry • Measures 	4 x 50 minute lessons per week in Year 11

	<ul style="list-style-type: none"> • Probability • Statistics <p>Students are regularly assessed using GCSE criteria. Two individual or one longer piece of homework are set weekly on work linked to the topic studied in class and examination style questions.</p>			
<p>Year 12 and 13 (Key Stage 5)</p>	<p>Students follow the 2 year A level EDEXCEL 9MAO course with the option to sit the AS level 8MAO exam if they do not continue mathematics into Year13 (6)(11)</p> <p><u>Content overview</u></p> <table border="0"> <tr> <td data-bbox="264 461 718 813"> <p>Pure</p> <ul style="list-style-type: none"> • Proof • Algebra and functions • Coordinate geometry in the (x, y) plane • Sequences and series • Trigonometry • Exponentials and logarithms • Differentiation • Integration • Numerical methods • Vectors </td> <td data-bbox="831 483 1260 835"> <p>Statistics</p> <ul style="list-style-type: none"> • Statistical sampling • Data presentation and interpretation • Probability • Statistical distributions • Statistical hypothesis testing <p>Mechanics</p> <ul style="list-style-type: none"> • Quantities and units in mechanics • Kinematics • Forces and Newton's laws • Moments </td> </tr> </table> <p>We also offer the 2 year Further Mathematics A level EDEXCEL 9FMO which has further elements of Pure, statistics and Mechanics topics. In Yr12 we normally have approximately 100 students in 6 classes and 15 students in 1 further mathematics class. In Yr13 we normally have approximately 80 students in 5 classes and 15 students in 1 further mathematics class.</p> <p>A level students are required to complete 3 hours of homework and 2 hours of directed study per week outside of lessons which is monitored closely with regular folder checks.</p>	<p>Pure</p> <ul style="list-style-type: none"> • Proof • Algebra and functions • Coordinate geometry in the (x, y) plane • Sequences and series • Trigonometry • Exponentials and logarithms • Differentiation • Integration • Numerical methods • Vectors 	<p>Statistics</p> <ul style="list-style-type: none"> • Statistical sampling • Data presentation and interpretation • Probability • Statistical distributions • Statistical hypothesis testing <p>Mechanics</p> <ul style="list-style-type: none"> • Quantities and units in mechanics • Kinematics • Forces and Newton's laws • Moments 	<p>6 x 50 minute lessons per week</p>
<p>Pure</p> <ul style="list-style-type: none"> • Proof • Algebra and functions • Coordinate geometry in the (x, y) plane • Sequences and series • Trigonometry • Exponentials and logarithms • Differentiation • Integration • Numerical methods • Vectors 	<p>Statistics</p> <ul style="list-style-type: none"> • Statistical sampling • Data presentation and interpretation • Probability • Statistical distributions • Statistical hypothesis testing <p>Mechanics</p> <ul style="list-style-type: none"> • Quantities and units in mechanics • Kinematics • Forces and Newton's laws • Moments 			
<p>EXTRA-CURRICULAR PROVISION IN THE MATHS FACULTY</p>				
<p>We enter students for the Junior, Intermediate and Senior UKMT Maths events including the individual and team challenges. The UK Mathematical Trust (UKMT) is a registered charity which runs national mathematical challenges. We run a weekly afterschool maths club which is very popular with key stage 3 students and a lunchtime homework support club. (19)</p> <p>We provide targeted intervention through one to one tutoring, afterschool, weekend and holiday revision sessions at various points during the academic year.(8)</p>				