Curriculum Overview	Subject: Mathematics Year Group: 9 Examination Board - Edex					
When?	What?	Why?	How?	Assessment?	Support?	
Autumn Term	 Calculations, checking & rounding Indices, roots and hierarchy of operations Algebra: the basics Averages and range Polygons, angles & parallel lines 	Students should build on learning from Years 7 & 8 further developing fluency, mathematical reasoning and competence in solving increasingly sophisticated	Students will learn through a range of techniques. A significant proportion of each lesson will focus on building on prior knowledge, with new	Formative assessment techniques, such as quizzing and cold-calling questioning, are used to assess the students prior knowledge and misconceptions.	e-PLC This can be found in the respective google classroom. This has a, by topic, list of every learning outcome that the student will cover. With each objective there is a:	
Spring Term	 Sets 1-3 Factors, Multiples & primes Standard form Surds Setting up, rearranging and solving equations Representing & interpreting data Perimeter, Area & Circles Sets 4-6 Decimals Expanding & Factorising Single brackets Charts & Graphs Interior & Exterior angles 	Curriculum areas of number, algebra, ratio and proportion, probability, geometry and statistics. The curriculum will continue to enable students to make links between topics and concepts whilst encouraging students to visualise and recognise patterns.	concepts presented in small steps and scaffolded as required. Teachers will use skilful questioning techniques to assess understanding throughout the lesson, identifying any misconceptions and ensuring that any required prior knowledge is secure before moving on.	Summative assessments are completed termly with the focus in each term being to review student understanding of topics taught in the current and previous terms. This could include topics taught in previous years.	Video tutorialMy Maths task	
Summer Term	Sets 1-3 Fractions Percentages Sequences Scatter Graphs Pythagoras' Theorem 3D Forms & Volume Sets 4-6 Fractions, Decimals & Percentages Expressions & Substitution Pie Charts / Scatter Graphs Probability Perimeter & Area 3D forms & Volume	on topics determined by their tier of entry, with sets 1-3 following the Higher tier and sets 4-6 following the Foundation tier. The amount of time dedicated to studying each area reflects the weightings on the tier of entry.	Students will then get time to practise these new ideas independently. The regular use of retrieval practice will also help inform teaching.		www.methodmaths.com Students have access to a repository of past papers, which self-marks and provides question support.	

Curriculum Overview	Subject: Mathematics - Foundation Year Group: 10				Examination Board - Edexcel
When?	What?	Why?	How?	Assessment?	Support?
Autumn Term	 Percentages Solving equations Inequalities Sequences Statistics & Sampling Constructions, Loci & Bearings 	Students should build on learning from Key Stage 3 further developing fluency, mathematical reasoning and competence in solving increasingly sophisticated problems across the National Curriculum areas	Students will learn through a range of techniques. A significant proportion of each lesson will focus on building on prior knowledge, with new concepts presented in	Formative assessment techniques, such as quizzing and cold-calling questioning, are used to assess the students prior knowledge and misconceptions.	e-PLC This can be found in the respective google classroom. This has a, by topic, list of every learning outcome that the student will cover. With each objective there is a: Video tutorial
Spring Term	 Ratio & Proportion Real-life Graphs Transformations I - Rotations & Translations Transformations II - Reflections & Enlargements 	of number, algebra, ratio and proportion, probability, geometry and statistics. The amount of time dedicated to studying each area reflects the weightings on the tier of entry. Across both tiers, there will be significantly greater emphasis on exam questions and on developing exam technique in Year 10. For example, how to break larger mark questions down into manageable parts, learning how long to spend on questions and how to maximise their marks.	small steps and scaffolded as required. Teachers will use skilful questioning techniques to assess understanding throughout the lesson, identifying any misconceptions and ensuring that any required prior knowledge is secure before moving on. Students will then get time to practise these new ideas independently. The regular use of retrieval practice will also help inform teaching.	Summative assessments are completed termly with the focus in the Autumn and Spring terms reviewing student understanding of topics taught in the current and previous terms, whilst the Summer term assessment is two full past papers.	My Maths task Exam questions & answers My Maths www.mymaths.co.uk Here students will find step-by-step lessons and consolidation tasks. Students will have been given their login details in class. Method Maths www.methodmaths.com Students have access to a repository of past papers, which self-marks and provides question support.
Summer Term	 Multiplicative Reasoning Straight-Line Graphs The Averages Pythagoras & Trigonometry 				

Curriculum Overview	Subject: Mathematics - Year Group: 10	Examination Board - Edexcel			
When?	What?	Why?	How?	Assessment?	Support?
Autumn Term	 Ratio & Proportion Real Life graphs Linear Graphs and coordinate geometry Collecting data Trigonometry and further Pythagoras 	Students should build on learning from Key Stage 3 further developing fluency, mathematical reasoning and competence in solving increasingly sophisticated problems across the	Students will learn through a range of techniques. A significant proportion of each lesson will focus on building on prior knowledge, with	Formative assessment techniques, such as quizzing and cold-calling questioning, are used to assess the students prior knowledge and misconceptions.	e-PLC This can be found in the respective google classroom. This has a, by topic, list of every learning outcome that the student will cover. With each objective there is a: • Video tutorial
Spring Term	 Multiplicative Reasoning Solving quadratic and simultaneous equations Probability Accuracy and bounds Complex 3D forms and volume 	National Curriculum areas of number, algebra, ratio and proportion, probability, geometry and statistics. The amount of time dedicated to studying each area reflects the weightings on the tier of entry. Across both tiers, there will be significantly greater emphasis on exam questions and on developing exam technique in Year 10. For example, how to break larger mark questions down into manageable parts, learning how long to spend on questions and how to maximise their marks.	new concepts presented in small steps and scaffolded as required. Teachers will use skilful questioning techniques to assess understanding throughout the lesson, identifying any misconceptions and ensuring that any required prior knowledge is secure before moving on. Students will then get time to practise these new ideas independently. The regular use of retrieval practice will also help inform teaching.	Summative assessments are completed termly with the focus in the Autumn and Spring terms reviewing student understanding of topics taught in the current and previous terms, whilst the Summer term assessment is two full past papers.	Video tutorial My Maths task Exam questions & answers My Maths www.mymaths.co.uk Here students will find step-by-step lessons and consolidation tasks. Students will have been given their login details in class. Method Maths www.methodmaths.com Students have access to a repository of past papers, which self-marks and provides question support.
Summer Term	 Quadratic, cubic and other graphs Inequalities Cumulative frequency diagrams, Box plots and Histograms Transformations 				

Curriculum Overview	Subject: Mathematics - Foundation Year Group: 11				Examination Board - Edexcel Revision Guide
When?	What?	Why?	How?	Assessment?	Support?
Autumn Term	 Probability Quadratic equations - expanding & factorising Plans & Elevations Circles, cylinders, cones and spheres 	Students should build on learning from Year 10 further developing fluency, mathematical reasoning and competence in solving increasingly sophisticated problems across the	Students will learn through a range of techniques. A significant proportion of each lesson will focus on building on prior knowledge, with	Formative assessment techniques, such as quizzing and cold-calling questioning, are used to assess the students prior knowledge and misconceptions.	e-PLC This can be found in the respective google classroom. This has a, by topic, list of every learning outcome that the student will cover. With each objective there is a:
Spring Term	 Fractions & reciprocals Indices and standard form Rearranging equations Cubic and reciprocal graphs Simultaneous Equations Similarity & congruence Vectors 	National Curriculum areas of number, algebra, ratio and proportion, probability, geometry and statistics. The amount of time dedicated to studying each area reflects the weightings on the tier of entry. Across both tiers, there will continue to be an emphasis on exam questions and on developing exam technique in Year 11. For example, how to break larger mark questions down into manageable parts, learning how long to spend on questions and how to maximise their marks.	new concepts presented in small steps and scaffolded as required. Teachers will use skilful questioning techniques to assess understanding throughout the lesson, identifying any misconceptions and ensuring that any	Summative assessments are completed termly with students taking PPEs (mock exams) in the Autumn and Spring term. This approach helps to develop the resilience and perseverance needed to be successful whilst also providing question level analysis of the students strengths and areas for improvement.	Video tutorial My Maths task Exam questions & answers My Maths www.mymaths.co.uk Here students will find step-by-step lessons and consolidation tasks. Students will have been given their login details in class. Method Maths www.methodmaths.com Students have access to a repository of past papers, which self-marks and provides question support.
Summer Term	Revision and preparation for formal external examinations.		required prior knowledge is secure before moving on. Students will then get time to practise these new ideas independently. The regular use of retrieval practice will also help inform teaching.		

Curriculum Overview	Subject: Mathematics - Higher Year Group: 11				Examination Board - Edexcel Revision Guide
When?	What?	Why?	How?	Assessment?	Support?
Autumn Term Spring Term	 Expanding more than 2 brackets Solving simultaneous equations graphically Changing the subject Iteration Geometric sequences Functions Similarity & congruence Circle Theorems Further Surds Direct and inverse Proportion Algebraic fractions, solving and proof Trigonometric graphs Further trigonometry Vectors and geometric proof 	Students should build on learning from Year 10 further developing fluency, mathematical reasoning and competence in solving increasingly sophisticated problems across the National Curriculum areas of number, algebra, ratio and proportion, probability, geometry and statistics. The amount of time dedicated to studying each area reflects the weightings on the tier of entry. Across both tiers, there will continue to be an emphasis on exam questions and on developing exam technique in Year 11. For example, how to break larger mark	Students will learn through a range of techniques. A significant proportion of each lesson will focus on building on prior knowledge, with new concepts presented in small steps and scaffolded as required. Teachers will use skilful questioning techniques to assess understanding throughout the lesson, identifying any misconceptions and ensuring that any required prior	Formative assessment techniques, such as quizzing and cold-calling questioning, are used to assess the students prior knowledge and misconceptions. Summative assessments are completed termly with students taking PPEs (mock exams) in the Autumn and Spring term. This approach helps to develop the resilience and perseverance needed to be successful whilst also providing question level analysis of the students strengths and areas for improvement.	e-PLC This can be found in the respective google classroom. This has a, by topic, list of every learning outcome that the student will cover. With each objective there is a:
Summer Term	Revision and preparation for formal external examinations.	questions down into manageable parts, learning how long to spend on questions and how to maximise their marks.	knowledge is secure before moving on. Students will then get time to practise these new ideas independently. The regular use of retrieval practice will also help inform teaching.		Students have access to a repository of past papers, which self-marks and provides question support.