

Key Stage 4 Curriculum Map 2021-22

Year 11- Term 1

Subject: Mathematics		Year: 11	
Focus/Topic	UAE Links	HPL Links	Home Learning / Guided Reading
<ul style="list-style-type: none"> Orientation and Induction 		Empathetic - Confident	
<ul style="list-style-type: none"> Recurring decimals - Converting a fraction to a recurring decimal and vice versa and deciding whether or not a fraction can be written as a terminating. 		Linking – Connection finding	Guided revision and practice papers
<ul style="list-style-type: none"> Bounds – Identify upper and lower bounds, write bounds as error intervals. 		Analysing – Critical or logical thinking	Guided revision and practice papers
<ul style="list-style-type: none"> Mock examinations 		Hard working – Resilience	
<ul style="list-style-type: none"> Bounds – Calculate bounds of an expression involving four operations and compute more complex calculations involving perimeter, area and volume. 		Linking – Big picture thinking	Guided revision and practice papers
<ul style="list-style-type: none"> Exponential growth and decay – Use multipliers to increase decrease as a percentage, explore repeated increases and decreases, explore graphs of exponential functions. 		Analysing – Complex and multi step problem solving	Guided revision and practice papers
<ul style="list-style-type: none"> Functions – Understand the relationship between two sets values, interpret and use the inverse function. 		Agile - Enquiring	Guided revision and practice papers
Break			
<ul style="list-style-type: none"> Functions – Understand, interpret and use the composite function. 		Analysing – Critical or logical thinking	Guided revision and practice papers
<ul style="list-style-type: none"> Differentiation – Understand and use the gradient function dy/dx, use differentiation to find stationary points on a curve. 		Linking – Seeing alternative perspectives	Guided revision and practice papers
<ul style="list-style-type: none"> Area under a curve – Find and interpret the area underneath a graph, use the trapezium rule to find the area under a curve. 		Creating – Flexible thinking	Guided revision and practice papers
<ul style="list-style-type: none"> Algebraic fractions – Begin to solve algebraic fractions. 		Realising - Automaticity	Guided revision and practice papers

<ul style="list-style-type: none"> Algebraic fractions – Solve more complex algebraic fractions. 		Realising – Speed and accuracy	Guided revision and practice papers
<ul style="list-style-type: none"> Proof – Understand terminology involved with proofs . 		Realising - Automaticity	Guided revision and practice papers
<ul style="list-style-type: none"> Proof – Use algebra to prove statements are true. 		Linking – Big picture thinking	Guided revision and practice papers