

Key Stage 3 – Upper Site					
Subject	Subject Aims	Topics Covered / Skills Developed	Assessment	Independent Study Advice	External Links
Maths	<p>To lay the foundations of skills required to develop throughout their learning journey to KS4 qualification(s) through:</p> <ul style="list-style-type: none"> • Fluency • Reasoning • Problem Solving 	<p>Topics:</p> <ul style="list-style-type: none"> • Reading mathematical problems context (School Priority) • Analysis and displaying data • Number skills • Expressions functions and formulae • Decimals and Measures • Fractions and Percentages • Probability • Ratio and Proportion • Lines and Angles • Sequences and Graphs • Transformations 	<p>Baseline assessments using GL Assessment for Cognitive Ability and Mental Maths.</p> <p>Sample assessment material from Pearson following Progress Maths</p> <p>Teacher and self-assessment</p> <p>Topic assessment through online platform – Learning By Questions</p>	<p>Students will contribute to their Mathematical Ability by showing all their detail across their curriculum. This provides students with the skills to show their working out which is essential in all their exams.</p>	<p>BBC Bitesize</p> <p>GL Assessment</p> <p>Learning By Questions</p> <p>Corbett Maths</p>

Numeracy	Reinforcement of basic number skills identifying deficits in learning optimising the PACE (Playfulness, Acceptance, Curiosity and Empathy) approach	<ul style="list-style-type: none"> • Reading mathematical problems in context (School Priority) • Basic number operation • Operations (addition, subtraction, multiplication, division and inverse) • Concentration on abstract concepts <ul style="list-style-type: none"> ○ (Negative numbers, fractions etc.) • Time and timetables • Problem solving and multi-step questions • Mathematical vocabulary • Application • Functionality of Mathematics 	Teacher assessment End of Topic Quizzes ‘Real’ exam questions	Students will contribute to their Mathematical Ability by showing all their detail across their curriculum. This provides students with the skills to show their working out which is essential in all their exams.	BBC Bite Size Corbett Maths
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Functional Skills Maths	<p>Reading Mathematical problems in context (School Priority)</p> <p>Analyse Mathematical information needs to be identified and analysed for students to extract what particular mathematics is needed.</p> <p>Interpret Students will use recall to work with the identified skills and knowledge. Using mastery methods to construct accurate calculations.</p> <p>Justify Students have performed accurate calculations, and provided a rationale into why they have chosen the maths, and why their answer is recorded</p>	<ul style="list-style-type: none"> • Number • Measure and Shape • Handling Data • Problem Solving (Since the 2019 Reform of the Functional Skills Qualification) 	<p>Initial Assessment using sample assessment material from Pearson (Edexcel)</p> <p>Paper based exams 1 Non-Calculator 1 Calculator at all levels.</p> <p>(Option for computer based exams at Level 1 and Level 2)</p>	<p>Students to identify maths they use in their everyday lives and link their experiences to the classroom – expanding and developing their skills base. Students are also to develop skills in showing all their working out which can make the difference between grades. Qualifications are sat when students are emotionally mature. Level 1 and Level 2 qualifications are weighted against GCSE and some colleges for progression purposes, prefer the addition of Functional Skills qualifications</p>	<p>Edexcel Functional Skills Maths</p>
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