

## Mathematics KS4 Curriculum Statement

### Vision

We believe that all students can become successful, confident and resilient mathematicians and our curriculum is built with this in mind. We believe that through our ambitious and coherent curriculum all students are capable of becoming proficient with mathematical facts, vocabulary, procedures and understanding. We aim to promote and encourage a curiosity and enjoyment in doing mathematics and to ensure that all our students are mathematically and numerically literate.

### Intent

Our curriculum is carefully sequenced and developed so that students build from their prior mathematical knowledge from KS3. Our curriculum focuses on depth within topics rather than breadth. Content is broken into concrete small steps which are followed in a careful order to build student's understanding from their prior knowledge. Our curriculum aims to inspire students to be curious of mathematics and to enjoy doing mathematics. Our curriculum is planned so that all students have regular opportunities to practice fluency of procedures, to reason mathematically and to problem solve. We ensure that all students have strong factual recall of core mathematical knowledge.

### Implementation

Teachers use their expertise to model and scaffold content so that all students are taught to their full potential. Teachers are aware of potential misconceptions and address these in lessons. Teachers ensure that students get a balance of fluency practice, reasoning and problem solving. Prior content is regularly reviewed to ensure that students have embedded content in their long term memory. All students will be stretched and challenged in lessons.

### Impact

The curriculum will allow all students to build upon prior knowledge and correct misconceptions of their time at Budmouth. This will lead to them becoming fluent with mathematical procedures, proficient with mathematical facts and vocabulary and confident in their mathematical ability. Students will be able to retrieve knowledge confidently and will develop problem solving skills. Our focus on strong factual recall ensures that students can apply this knowledge.

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