Curriculum rationale **Faculty : Maths** **Lead : H Stuttard**

What is your curriculum statement for each key stage?

KS3

We currently teach using the Delta and Theta schemes of learning from Pearson Edexcel. These schemes of learning allow pupils to delve into different aspects of maths including problem solving, reasoning and fluency in a range of different mathematical topics that stretch and challenge pupils in KS3 to prepare them for GCSE. The KS3 maths curriculum encourages all pupils to be open minded at trying new topics in maths and enjoy the experience of learning how to solve problems. It allows all learners to be numerate enough to tackle real world maths and use their problem solving skills to approach problems outside of the classroom. All pupils are encouraged to have a rich learning experience and take part in themed maths days, problem solving challenges and numeracy events. As well as, pushing all learners to stretch and challenge themselves fully in all aspects of the topics they study at KS3 and develop reasoning skills within their maths lessons.

KS4

For all pupils to develop the skills in fluency, reasoning and problems solving that were created in pervious key stages. For pupils to be resilient at attempting all questions to develop exam technique so they can find the maths within a question to enable them to answer efficiently. For all pupils to enjoy learning in Maths and to wish to further their Maths experiences outside of the classroom promoting these experiences to younger pupils. For pupils to clearly see the links that Maths has to the real world and many career options.

KS5

For all pupils to develop skills previously learned in order to recognise the connection between GCSE and A Level and links between topics through study and opportunities given outside the classroom. For all students to enjoy learning Maths and wish to further study in this area at degree or university level and discovering this through opportunities at universities. For students to promote their enjoyment of the subject throughout school and in their day to day lives.

How does learning develop through each key stage?

By deepening the understanding of each topic through mastery of fluency, reasoning and problem solving questions throughout all key stages.

What principles guide your decision making? What is distinctive about your curriculum?

Pupils are gaining maths and numeracy skills for life. The question level analysis from the KS2 scores assist in our decisions in what is distinctive in our curriculum.

How do you expect to see your curriculum delivered? How do you vary this delivery to meet the needs of all learners?

Curriculum rationale **Faculty : Maths** **Lead : H Stuttard**

We expect the curriculum to be delivered in a positive and encouraging way to engage all learners in maths. The scheme of learning is differentiated throughout all key stages to ensure it is accessible to all students. Where necessary, intervention is put into place to support and there is always challenge to stretch students.

How do your vary the learning experiences when delivering the curriculum? In the classroom / outside the classroom / through different learning opportunities?

In the classroom, a variety of activities is used to deliver the learning experience through our use of the Magenta principles as well as through differentiation and problem solving skill building. Outside the classroom, there are numerous intervention sessions that take place to support targeted students as well as drop ins. We have a full maths calendar to support the learning of maths through different learning opportunities such as UKMT Individual and Team Challenges, Maths Party, Dragons Den, Number Day, Pi Day and World Maths Day. All of these promote the use of maths in real life as well as encourage all learners to enjoy maths.

What impact does your curriculum have on the learners at Archbishop Blanch?

Pupils enjoy Maths and are clear in the link to real life in so many ways. Our curriculum enables them to complete further qualifications in Maths or other STEM subjects as a result of their Maths qualification. Our curriculum also teaches problem solving skills as life skills and develops our students into independent learners.

What are your assessments for this academic year?

Term 1

Year 7 End of term 1 assessment (edexcel pearson SOL)

Year 8 End of term 1 assessment (edexcel pearson SOL)

Year 9 Cumulative Test from Pearson SoL Unit 1-2

Year 10 Cumulative Test from Pearson SoL Unit 1-10

Year 11 Cumulative Test from Pearson SoL Unit 1-17

KS5 Stats/Mechanics Unit Tests

Term 2

Curriculum rationale **Faculty : Maths** **Lead : H Stuttard**

Year 7 End of term 2 assessment (edexcel pearson SOL)

Year 8 End of term 2 assessment (edexcel pearson SOL)

Year 9 Cumulative Test from Pearson SoL Unit 1-4

Year 10 Cumulative Test from Pearson SoL Unit 1-12

Year 11 Mocks

KS5 Stats/Mechanics(other) Unit Tests

Term 3

Year 7 End of term 3 assessment (edexcel pearson SOL)

Year 8 End of term 3 assessment (edexcel pearson SOL)

Year 9 Cumulative Test from Pearson SoL Unit 1-6

Year 10 Cumulative Test from Pearson SoL Unit 1-15

Year 11 Cumulative Test from Pearson SoL Unit 1-19/20

KS5 Pure 1/2Unit Tests

Term 4

Year 7 End of term 4 assessment (edexcel pearson SOL)

Year 8 End of term 4 assessment (edexcel pearson SOL)

Year 9 Cumulative Test from Pearson SoL Unit 1-7

Year 10 Cumulative Test from Pearson SoL Unit 1-16

Year 11 Mocks

KS5 Pure 1/2Unit (other) Tests

Term 5

Year 7 End of term 5 assessment (edexcel pearson SOL)

Curriculum rationale **Faculty : Maths** **Lead : H Stuttard**

Year 8 End of term 5 assessment (edexcel pearson SOL)

Year 9 Cumulative Test from Pearson SoL Unit 1-8

Year 10 Cumulative Test from Pearson SoL Unit 1-17

Year 11 Exams

KS5 Exam/Pure 1

Term 6

Year 7 End of year assessment (edexcel pearson SOL) – 2 papers (calc and non calc)

Year 8 End of term 5 assessment (edexcel pearson SOL) – 2 papers (calc and non calc)

Year 9 End of year assessment from Pearson SoL Unit 1-8 – 2 papers (calc and non calc)

Year 10 Mocks – full exam paper

Year 11 Exams

KS5 Exam/Mocks

Please attach your long term plans.