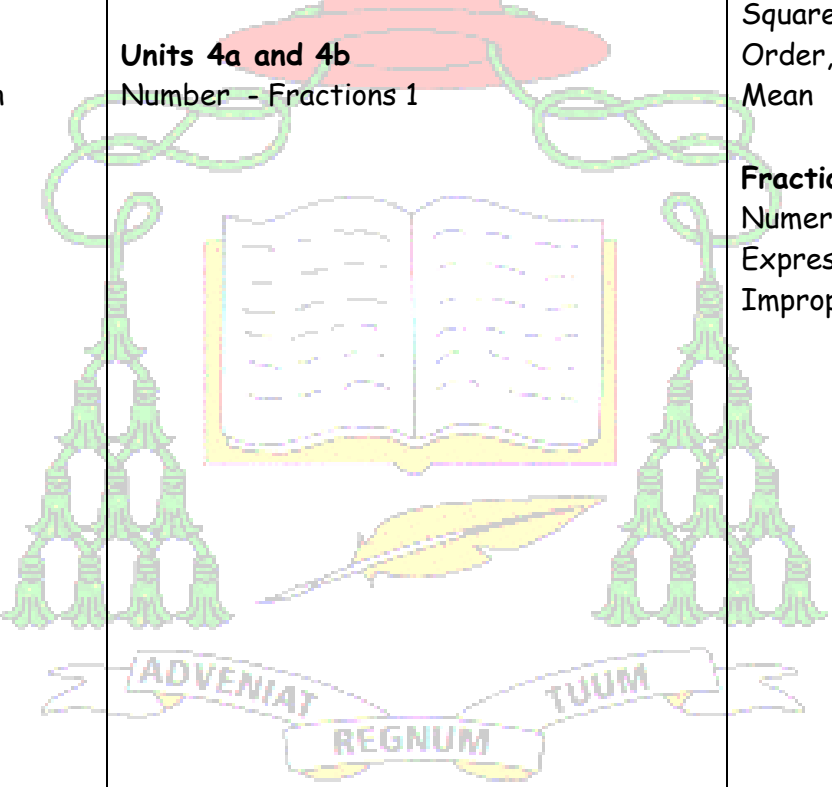


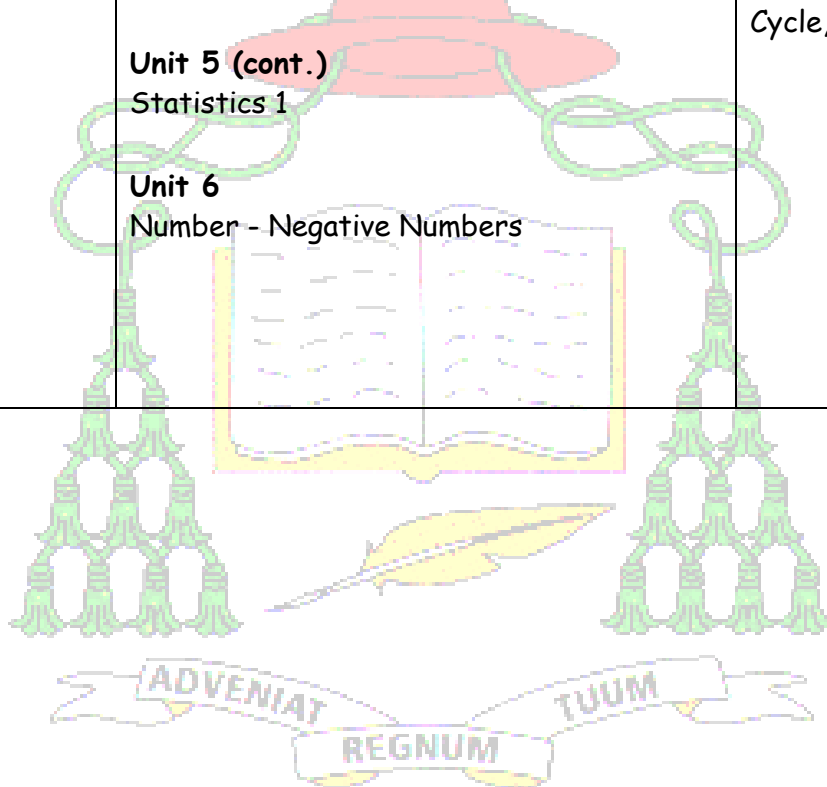
Archbishop Beck Catholic College Long Term Plan for **Maths**

Year 7

Autumn Half Term 1	Half Term 2	Key Vocabulary
<p>Topic Areas to be covered:</p> <p>Unit 1 Number - Place value</p>	<p>Topic Areas to be covered:</p> <p>Unit 2 Number - Addition and Subtraction</p> <p>Units 3a and 3b Number - Multiplication and Division</p>	<p>Place Value Integer, Number, Digit, Place holder, Partition, Greater than, Less than, Negative, Ascending, Descending, Approximate, Estimate, Significant</p> <p>Addition and Subtraction Operation, Sum, Difference, Borrow, Commutative, Law, Composite</p> <p>Multiplication and Division Product, Dividend, Divisor, Quotient, Scale Base Number, Square, Cube, Root, Power, Index, Indices, Order, Factor, Prime, Common, Mean</p>

Spring Half Term 3	Half Term 4	Key Vocabulary
<p>Topic Areas to be covered:</p> <p>Units 3a and 3b (cont.) Number - Multiplication and Division</p>	<p>Topic Areas to be covered:</p> <p>Units 4a and 4b Number - Fractions 1</p> 	<p>Multiplication and Division Square, Cube, Root, Power, Index, Indices, Order, Factor, Prime, Common, Frequency, Mean</p> <p>Fractions 1 Numerator, Denominator, Represent, Express, Equivalent, Simplify, Cancel, Improper, Of</p>

Summer Half Term 5	Half Term 6	Key Vocabulary
<p>Topic Areas to be covered:</p> <p>Unit 5 Statistics 1</p>	<p>Topic Areas to be covered:</p> <p>Unit 5 (cont.) Statistics 1</p> <p>Unit 6 Number - Negative Numbers</p>	<p>Statistics 1 Cycle, Collect, Construct, Interval</p>

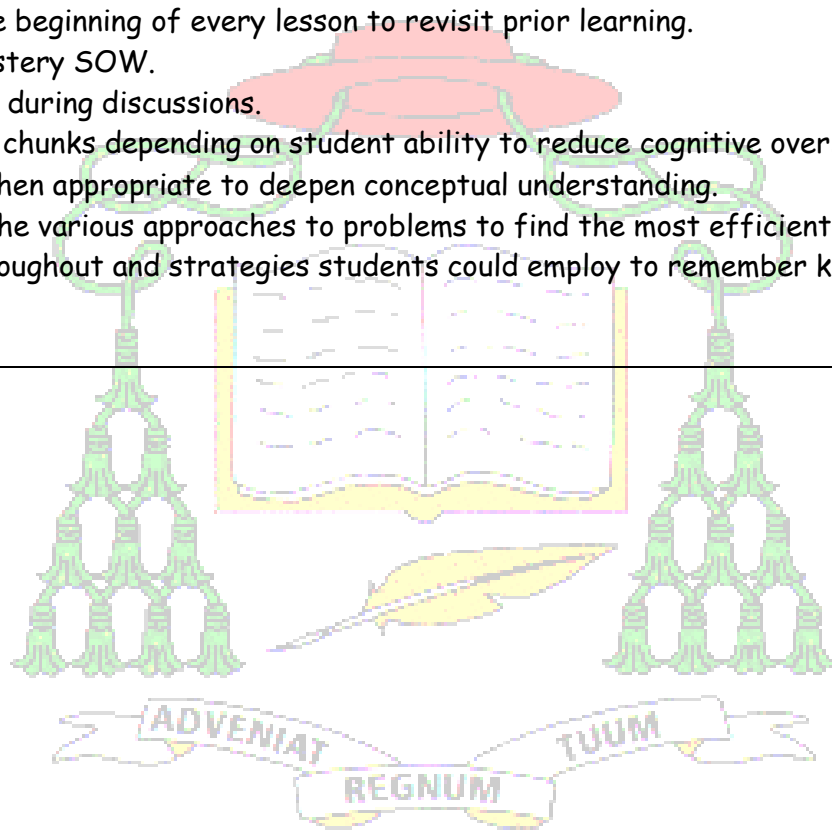


Year 7

Capital Cultural Experiences throughout the Academic Year	Learning Characteristics instilled in the curriculum	Career Opportunities
<p>World Pi Day. 14th March An introduction to pi, the history of pi and competitions.</p> <p>Other mathematical opportunities for selected students include UK Maths Challenge approx. end of April. Also see if local universities can provide degree students to do workshops.</p>	<p>Confidence Use of consolidations and mini-whiteboards to revisit prior learning and allow students to feel open to making mistakes. Encourage discussion of mistakes and praise those who offer up incorrect solutions/alternative methods for discussion.</p> <p>Positive High expectations in presentation of exercise books and standard of weekly homework. Consistent use of praise. Texts home for exceptional standards.</p> <p>Respectful Learners greeted at the door on arrival and consolidation exercise ready to start upon arrival. Consistent expectations and standards with regards to behaviour. Lead students by example and expect that everybody treats one another as they would like to be treated.</p>	<p>Career Week. Date TBC</p>

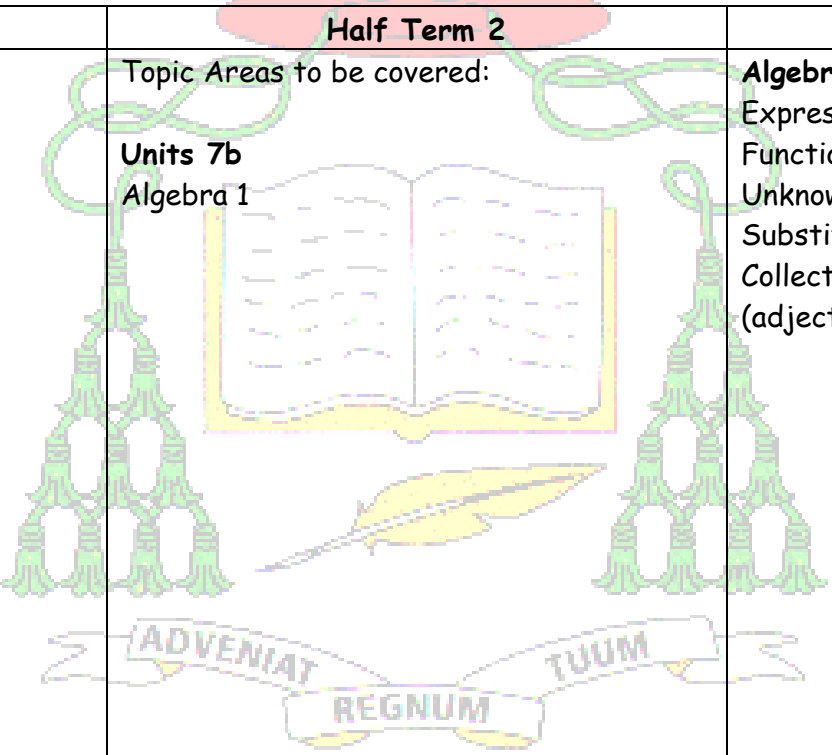
Metacognition Methods applied in Teaching

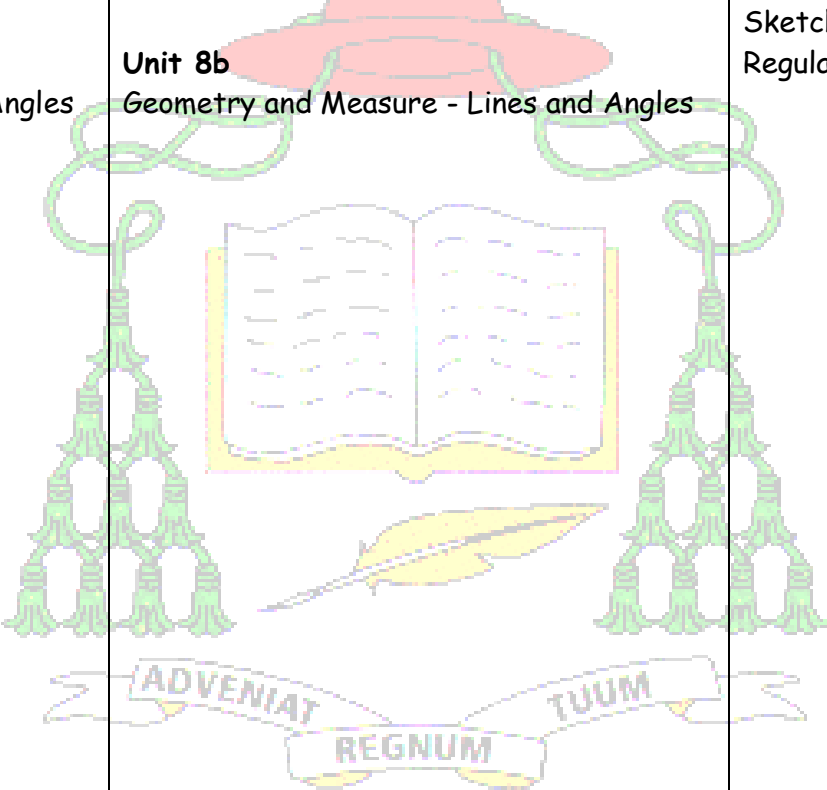
- Consolidation exercise at the beginning of every lesson to revisit prior learning.
- Use of a research based Mastery SOW.
- Give sufficient thinking time during discussions.
- Split topics into appropriate chunks depending on student ability to reduce cognitive overload.
- Use of variation exercises when appropriate to deepen conceptual understanding.
- Discussion of solutions and the various approaches to problems to find the most efficient method.
- Discussion of vocabulary throughout and strategies students could employ to remember key words.



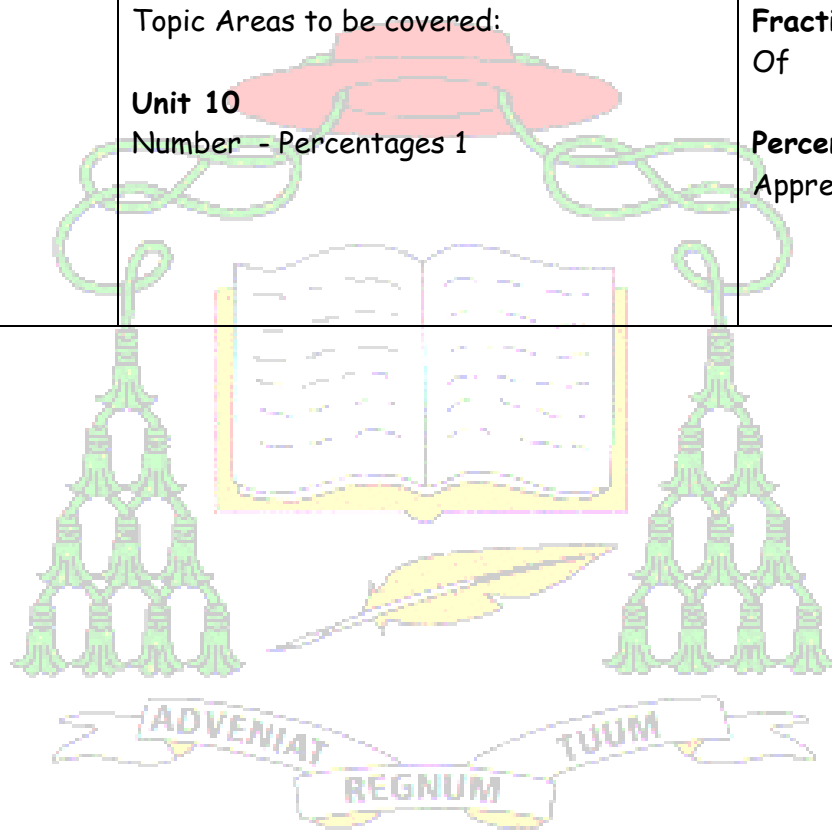
Archbishop Beck Catholic College Long Term Plan for **Maths**

Year 8

Autumn Half Term 1	Half Term 2	Key Vocabulary
<p>Topic Areas to be covered:</p> <p>Unit 7a Algebra 1</p>	<p>Topic Areas to be covered:</p> <p>Units 7b Algebra 1</p> 	<p>Algebra 1 Expression, Equation, Formula, Term, Function, Identity, Sign, Variable, Unknown, Coefficient, Simplify, Solve, Substitute, Manipulate, Equivalent, Collecting like terms, Arithmetic (adjective), Generate</p>

Spring Half Term 3	Half Term 4	Key Vocabulary
<p>Topic Areas to be covered:</p> <p>Unit 8a Geometry and Measure - Lines and Angles</p>	<p>Topic Areas to be covered:</p> <p>Unit 8b Geometry and Measure - Lines and Angles</p> 	<p>Lines and Angles Sketch, Conventional, Points, Lines, Curves, Regular, Irregular</p>

Summer Half Term 5	Half Term 6	Key Vocabulary
Topic Areas to be covered: Unit 9 Number - Fractions 2	Topic Areas to be covered: Unit 10 Number - Percentages 1	Fractions 2 Of Percentages Appreciate, Depreciate, Simple

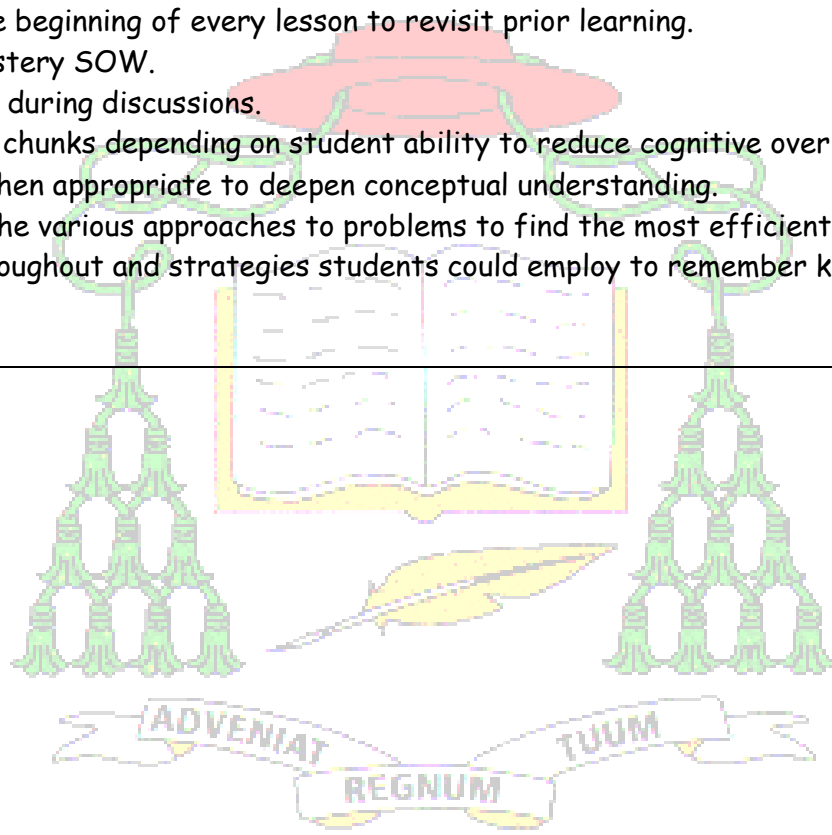


Year 8

<p>Capital Cultural Experiences throughout the Academic Year</p>	<p>Learning Characteristics instilled in the curriculum</p>	<p>Career Opportunities</p>
<p>World Pi Day. 14th March An introduction to pi, the history of pi and competitions.</p> <p>Other mathematical opportunities for selected students include UK Maths Challenge approx. end of April. Also see if local universities can provide degree students to do workshops.</p>	<p>Confidence Use of consolidations and mini-whiteboards to revisit prior learning and allow students to feel open to making mistakes. Encourage discussion of mistakes and praise those who offer up incorrect solutions/alternative methods for discussion.</p> <p>Positive High expectations in presentation of exercise books and standard of weekly homework. Consistent use of praise. Texts home for exceptional standards.</p> <p>Respectful Learners greeted at the door on arrival and consolidation exercise ready to start upon arrival. Consistent expectations and standards with regards to behaviour. Lead students by example and expect that everybody treats one another as they would like to be treated.</p>	<p>Career Week. Date TBC</p>

Metacognition Methods applied in Teaching

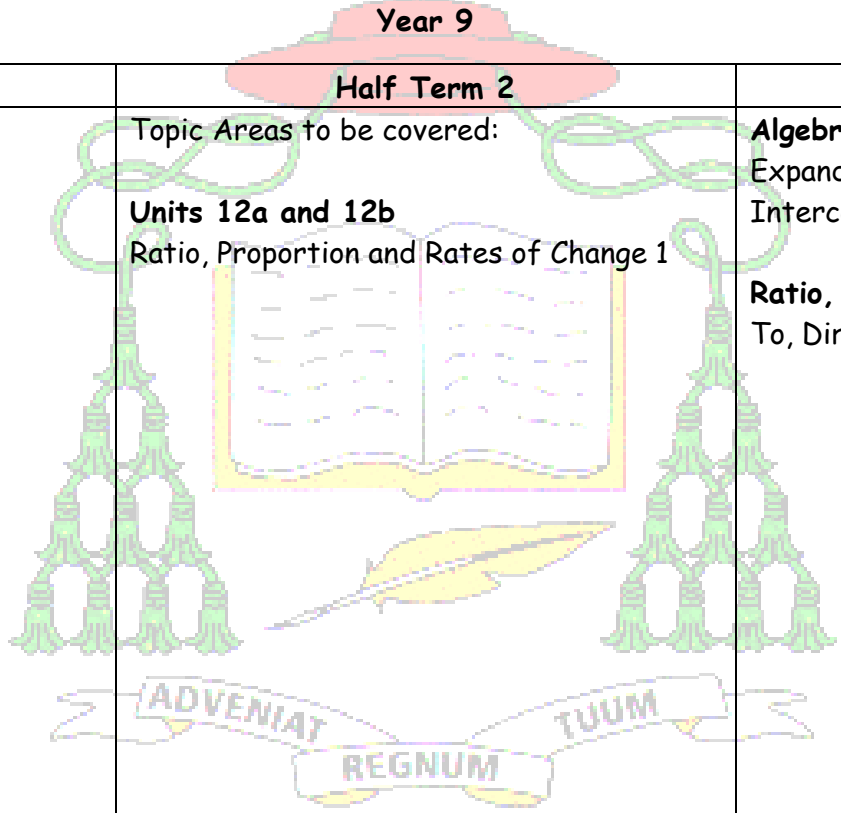
- Consolidation exercise at the beginning of every lesson to revisit prior learning.
- Use of a research based Mastery SOW.
- Give sufficient thinking time during discussions.
- Split topics into appropriate chunks depending on student ability to reduce cognitive overload.
- Use of variation exercises when appropriate to deepen conceptual understanding.
- Discussion of solutions and the various approaches to problems to find the most efficient method.
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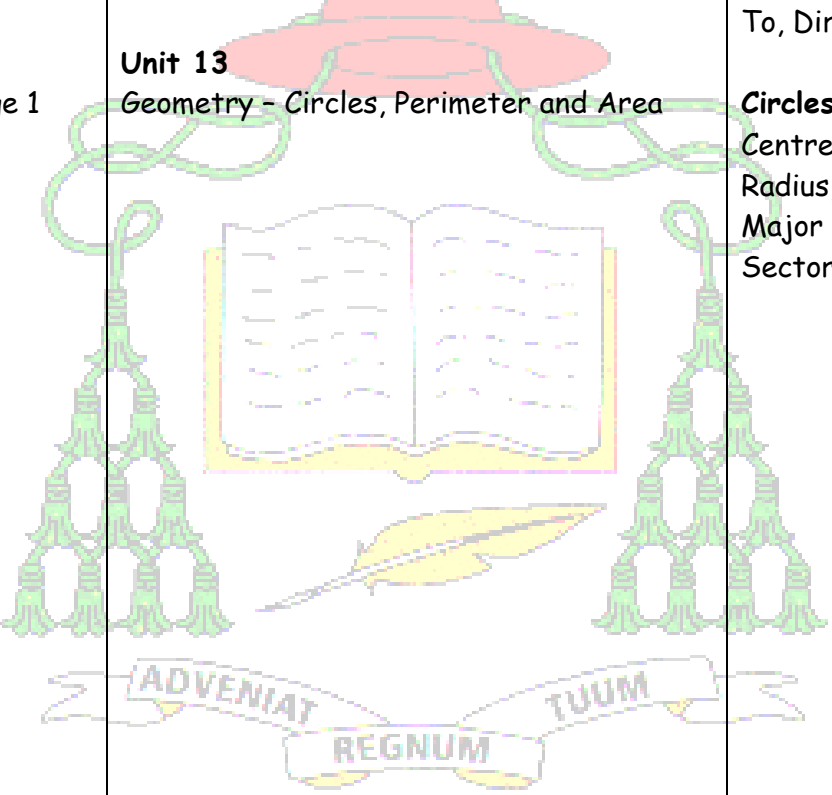


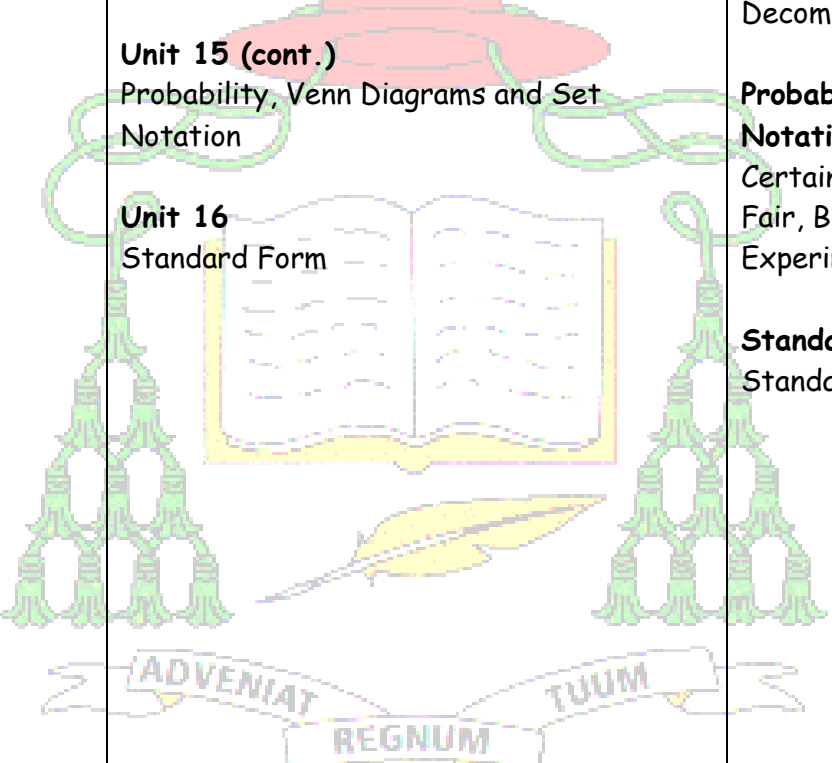
Archbishop Beck Catholic College Long Term Plan for **Maths**

Year 9

Autumn Half Term 1	Half Term 2	Key Vocabulary
<p>Topic Areas to be covered:</p> <p>Units 11a, 11b and 11c Algebra 2</p>	<p>Topic Areas to be covered:</p> <p>Units 12a and 12b Ratio, Proportion and Rates of Change 1</p>	<p>Algebra 2 Expand, Rearrange, Subject, Plot, Intercept, Gradient</p> <p>Ratio, Proportion and Rates of Change 1 To, Direct, Inverse</p>



Spring Half Term 3	Half Term 4	Key Vocabulary
<p>Topic Areas to be covered:</p> <p>Units 12a and 12b (cont.) Ratio, Proportion and Rates of Change 1</p>	<p>Topic Areas to be covered:</p> <p>Unit 13 Geometry - Circles, Perimeter and Area</p> 	<p>Ratio, Proportion and Rates of Change 1 To, Direct, Inverse</p> <p>Circles, Perimeter and Area Centre, <i>O</i> (for origin), Circumference, Radius, Diameter, Semi-circle, Arc, Chord, Major Segment, Minor Segment, Major Sector, Minor Sector, Tangent, Region</p>

Summer Half Term 5	Half Term 6	Key Vocabulary
<p>Topic Areas to be covered:</p> <p>Unit 14 Number - Number Properties and Relationships</p> <p>Unit 15 Probability, Venn Diagrams and Set Notation</p>	<p>Topic Areas to be covered:</p> <p>Unit 15 (cont.) Probability, Venn Diagrams and Set Notation</p> <p>Unit 16 Standard Form</p> 	<p>Number Properties and Relationships Decomposition</p> <p>Probability, Venn Diagrams and Set Notation Certain, Likely, Evens, Unlikely, Impossible, Fair, Biased, Event, Outcome, Theoretical, Experimental, Relative, Systematically</p> <p>Standard Form Standard</p>

Year 9

Capital Cultural Experiences throughout the Academic Year	Learning Characteristics instilled in the curriculum	Career Opportunities
<p>World Pi Day. 14th March The history of pi and competitions.</p> <p>Other mathematical opportunities for selected students include UK Maths Challenge approx. end of April. Also see if local universities can provide degree students to do workshops.</p>	<p>Confidence Use of consolidations and mini-whiteboards to revisit prior learning and allow students to feel open to making mistakes. Encourage discussion of mistakes and praise those who offer up incorrect solutions/alternative methods for discussion.</p> <p>Positive High expectations in presentation of exercise books and standard of weekly homework. Consistent use of praise. Texts home for exceptional standards.</p> <p>Respectful Learners greeted at the door on arrival and consolidation exercise ready to start upon arrival. Consistent expectations and standards with regards to behaviour. Lead students by example and expect that everybody treats one another as they would like to be treated.</p>	<p>Career Week. Date TBC</p>

Metacognition Methods applied in Teaching

- Consolidation exercise at the beginning of every lesson to revisit prior learning.
- Use of a research based Mastery SOW.
- Give sufficient thinking time during discussions.
- Split topics into appropriate chunks depending on student ability to reduce cognitive overload.
- Use of variation exercises when appropriate to deepen conceptual understanding.
- Discussion of solutions and the various approaches to problems to find the most efficient method.
- Discussion of vocabulary throughout and strategies students could employ to remember key words.

