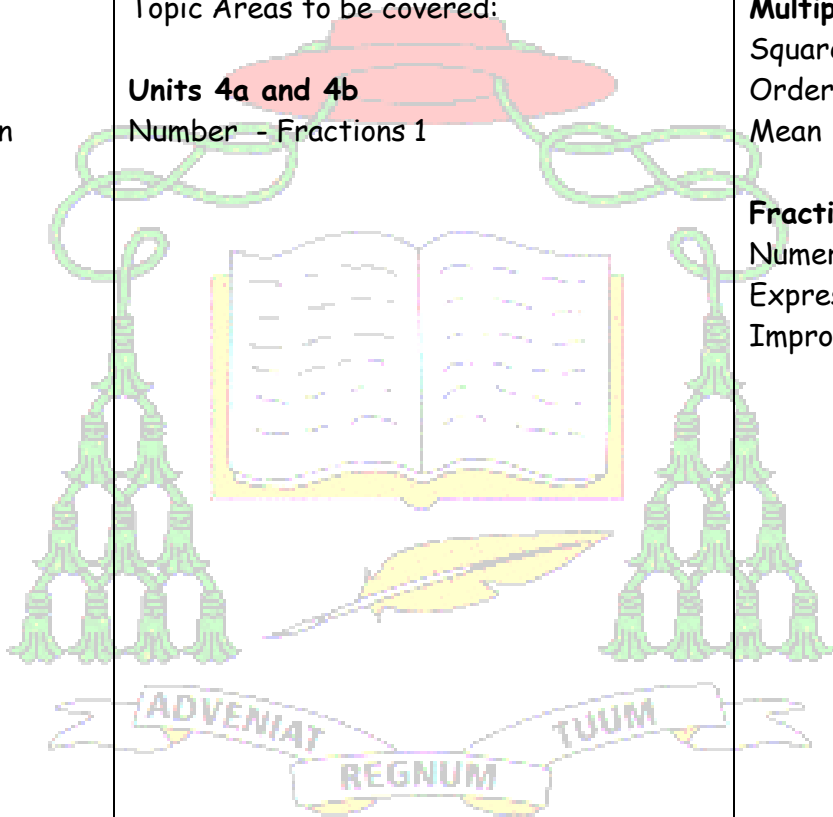


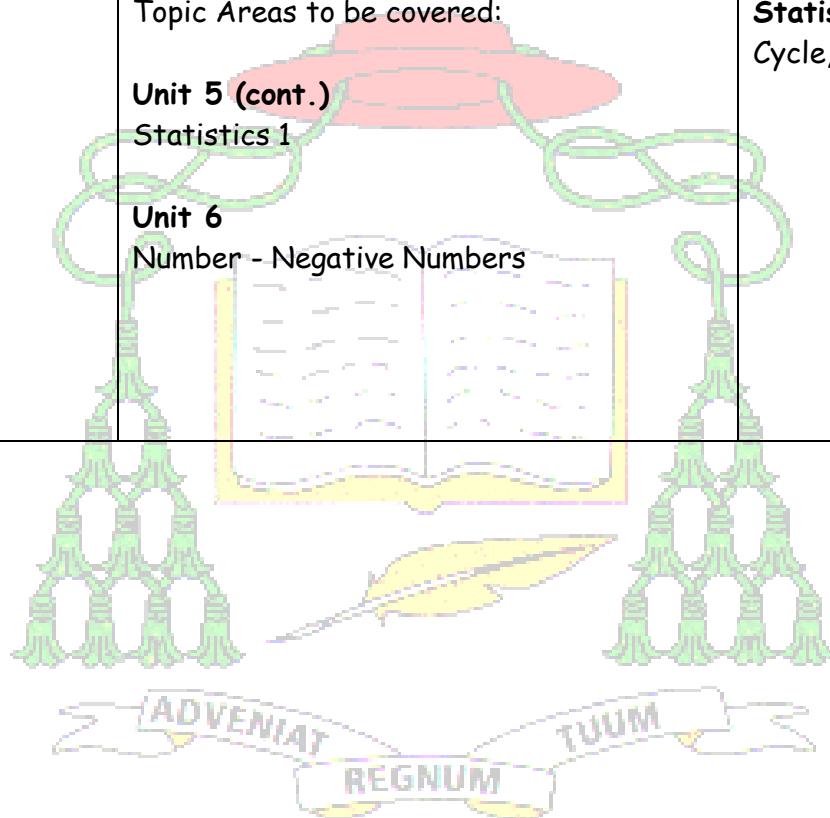
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Year 7

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>

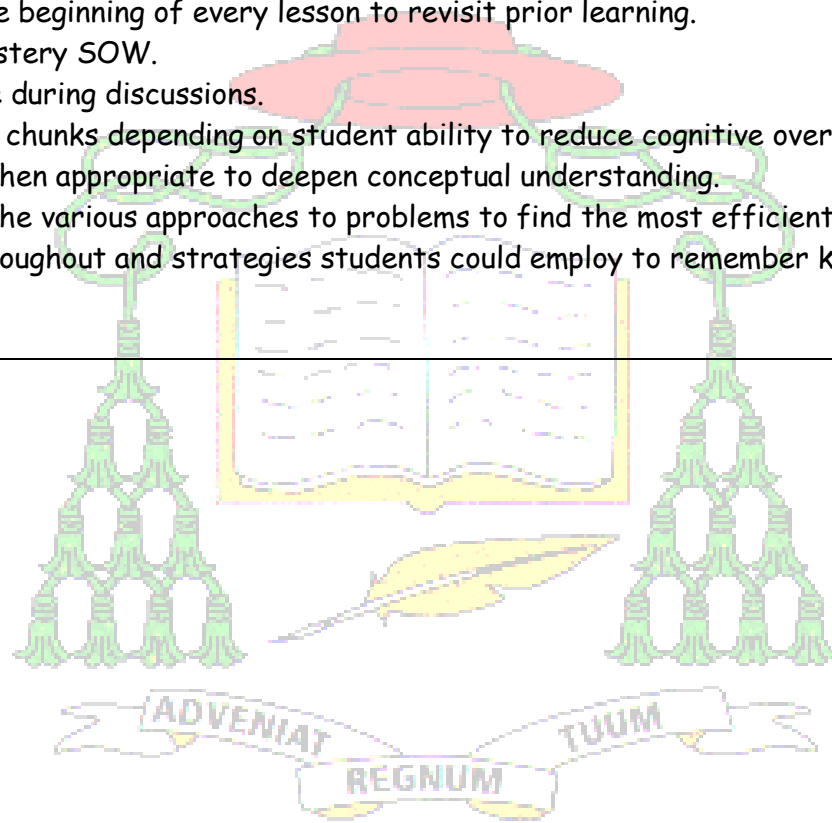


Year 7

Capital Cultural Experiences throughout the Academic Year	Learning Characteristics instilled in the curriculum	Career Opportunities
<p>World Pi Day. 14.03.2024</p> <p>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.</p> <p>Also see if local universities can provide degree students to do workshops.</p>	<p>Confidence</p> <p>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</p> <p>High expectations in presentation of exercise books and standard of weekly homework. Consistent use of praise. Texts home for exceptional standards.</p> <p>Respectful</p> <p>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

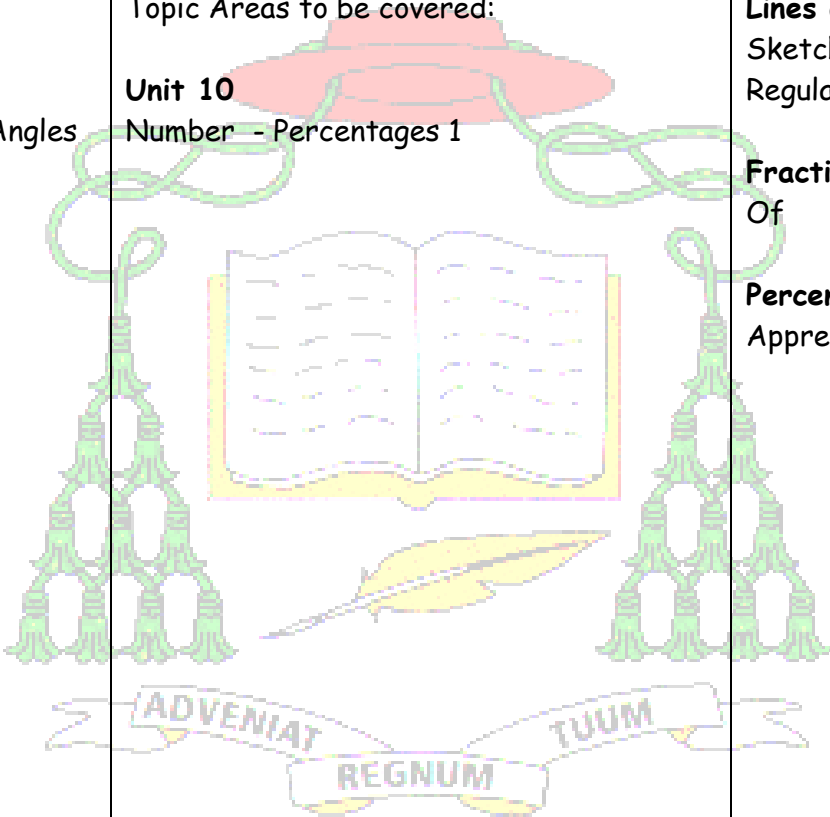
- Consolidation exercise at the beginning of every lesson to revisit prior learning.
- Use of a research based Mastery SOW.
- Give sufficient thinking time during discussions.
- Split topics into appropriate chunks depending on student ability to reduce cognitive overload.
- Use of variation exercises 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.



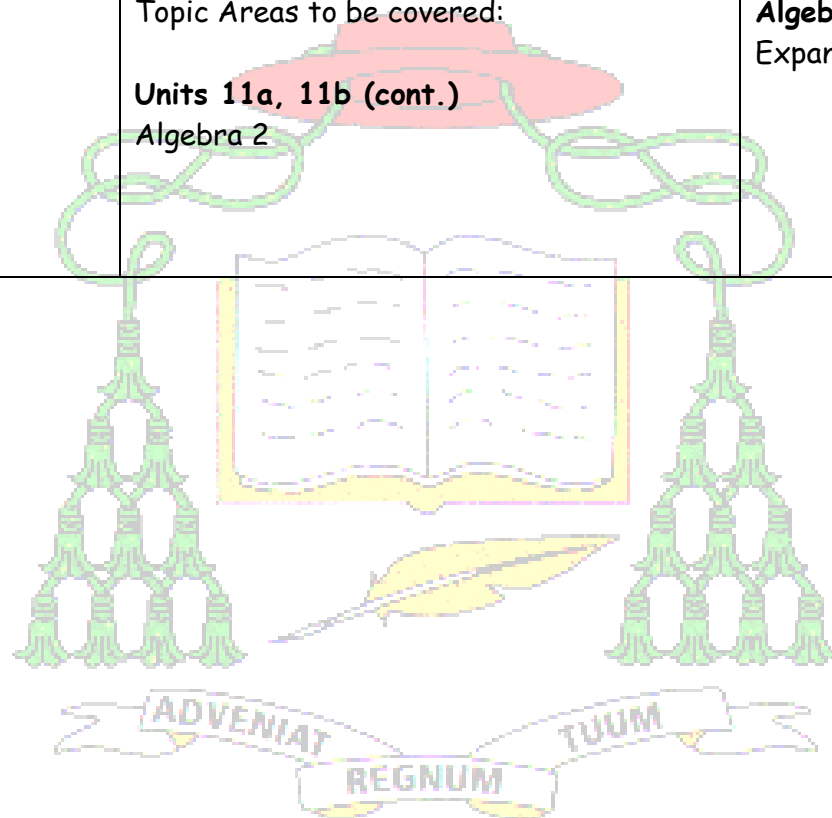
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Year 8

Autumn Half Term 1	Half Term 2	Key Vocabulary
<p>Topic Areas to be covered:</p> <p>Units 7a and 7b Algebra 1</p>	<p>Topic Areas to be covered:</p> <p>Units 8a and 8b Geometry and Measure - Lines and Angles</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> <p>Lines and Angles Sketch, Conventional, Points, Lines, Curves, Regular, Irregular</p>

Spring Half Term 3	Half Term 4	Key Vocabulary
<p>Topic Areas to be covered:</p> <p>Units 8a and 8b (cont.) Geometry and Measure - Lines and Angles</p> <p>Unit 9 Number - Fractions 2</p>	<p>Topic Areas to be covered:</p> <p>Unit 10 Number - Percentages 1</p> 	<p>Lines and Angles Sketch, Conventional, Points, Lines, Curves, Regular, Irregular</p> <p>Fractions 2 Of</p> <p>Percentages Appreciate, Depreciate, Simple</p>

Summer Half Term 5	Half Term 6	Key Vocabulary
<p>Topic Areas to be covered:</p> <p>Units 11a, 11b Algebra 2</p>	<p>Topic Areas to be covered:</p> <p>Units 11a, 11b (cont.) Algebra 2</p>	<p>Algebra 2 Expand, Rearrange</p>

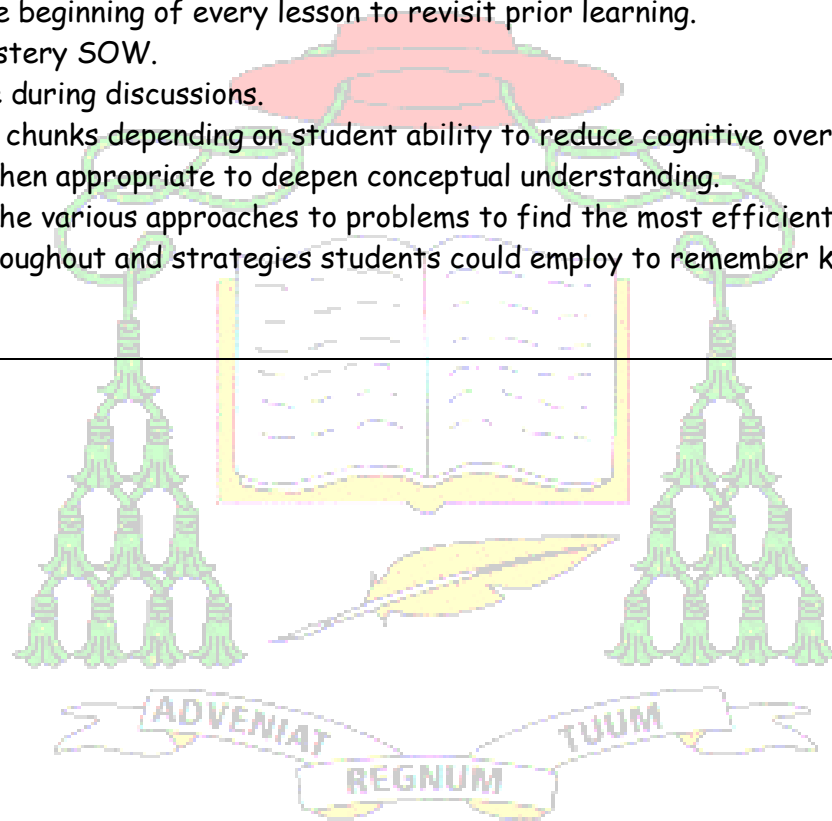


Year 8

Capital Cultural Experiences throughout the Academic Year	Learning Characteristics instilled in the curriculum	Career Opportunities
<p>World Pi Day. 14.03.2024</p> <p>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.</p> <p>Also see if local universities can provide degree students to do workshops.</p>	<p>Confidence</p> <p>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</p> <p>High expectations in presentation of exercise books and standard of weekly homework. Consistent use of praise. Texts home for exceptional standards.</p> <p>Respectful</p> <p>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.



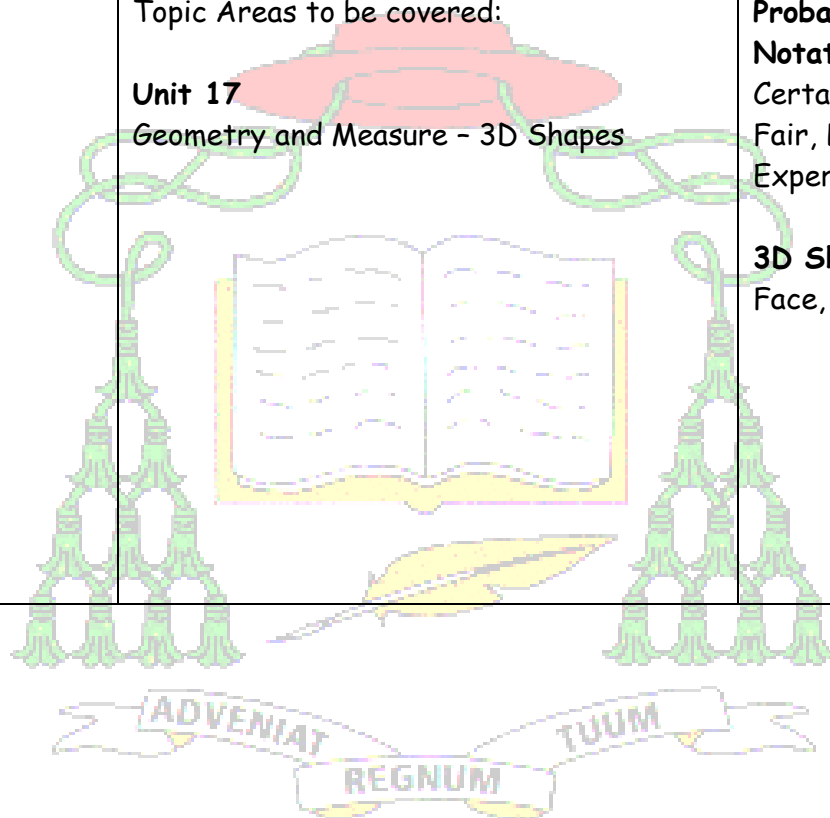
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Year 9

Autumn Half Term 1	Half Term 2	Key Vocabulary
<p>Topic Areas to be covered:</p> <p>Unit 11c Algebra 2</p> <p>Units 12a and 12b Ratio, Proportion and Rates of Change 1</p>	<p>Topic Areas to be covered:</p> <p>Units 12a and 12b (cont.) 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>Unit 13 Geometry - Circles, Perimeter and Area</p>	<p>Topic Areas to be covered:</p> <p>Unit 14 Number - Number Properties and Relationships</p> <p>Unit 15 Standard Form</p>	<p>Circles, Perimeter and Area Centre, O (for origin), Circumference, Radius, Diameter, Semi-circle, Arc, Chord, Major Segment, Minor Segment, Major Sector, Minor Sector, Tangent, Region</p> <p>Number Properties and Relationships Decomposition</p> <p>Standard Form Standard</p>

Summer Half Term 5	Half Term 6	Key Vocabulary
<p>Topic Areas to be covered:</p> <p>Unit 16 Probability, Venn Diagrams and Set Notation</p>	<p>Topic Areas to be covered:</p> <p>Unit 17 Geometry and Measure - 3D Shapes</p>	<p>Probability, Venn Diagrams and Set Notation Certain, Likely, Evens, Unlikely, Impossible, Fair, Biased, Event, Outcome, Theoretical, Experimental, Relative, Systematically</p> <p>3D Shapes Face, Surface, Edge, Vertex and Vertices</p>



Year 9

Capital Cultural Experiences throughout the Academic Year	Learning Characteristics instilled in the curriculum	Career Opportunities
<p>World Pi Day. 14.03.2024 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.
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- Use of variation exercises when appropriate to deepen conceptual understanding.
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- Discussion of vocabulary throughout and strategies students could employ to remember key words.

