| Year 9 | Emorging | Dovoloning | Soouro | Mastery |
|--------|----------|------------|--------|---------|
| Maths | Emerging | Developing | Secure | Mastery |

| | Term 1 | | | | |
|-------------------------|--|--|---|------------------------|--|
| | Moving towards mastering the core content of the | Factors multiples and primes. | Use a Venn diagram to calculate HCF and LCM. | Use prime factors. | |
| Properties of number | curriculum. | Write a number as a product of primes. Highest common factor and lowest common multiple. VENN diagrams. | Integers real numbers and rational numbers. | Introduction to surds. | |
| Percentages | Moving towards mastering the core content of the curriculum. | Percentage increase and decrease. Express a change as a present. Solve problems with percentages (with and without a calculator) Simple interest. | Find the original value after a percentage change. Repeated percentage change. Understand interest. | Compound interest. | |

| Year 9 Maths | Emerging | Developing | Secure | Mastery |
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| | | | | |
| | Moving towards mastering | Nets. | Volume of a cylinder. | Surface area of a triangular |
| | the core content of the | | | prism. |
| | curriculum. | Area of a 2-D shape. | | |
| | | | | Surface area of a cylinder. |
| Area and volume | | Area and circumference of a | | |
| 711 Ou dire Votanio | | circle. | | Volume of cones, pyramids |
| | | | | and spheres. |
| | | Surface area of cubes and | | |
| | | cuboids. | | Convert metric unit of area |
| | | | | and volume. |
| | | Volume of a prism. | | |
| | Moving towards mastering | Add and subtract fractions. | | |
| | the core content of the | | | |
| Fractions | curriculum. | Multiply and divide fraction. | | |
| | | | | |
| | | Fractions of an amount. | | |
| | Moving towards mastering | | Solve equations and | Inequalities with negative |
| | the core content of the | | inequalities with unknowns | numbers. |
| Equations, | curriculum. | | on both sides. | |
| inequalities and | | | | Change the subject of a |
| formulae | | | Solve problems with | complex formula. |
| | | | equations and inequalities. | |
| | | | | |
| | | | Change the subject of the | |
| | | | formula (two step) | |

| Year 9 Emerging Maths | Developing | Secure | Mastery |
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| | Moving towards mastering | Speed distance in time. | Flow problems and their | Convert compound units. |
|-----------------|--------------------------|----------------------------|-----------------------------|-------------------------|
| Rates | the core content of the | | graphs. | |
| nates | curriculum. | Distance time graphs. | | |
| | | | Rate of change and their | |
| | | | units. | |
| | Moving towards mastering | Understand a bank account. | Investing. | |
| | the core content of the | | | |
| | curriculum. | Spending. | Borrowing money. | |
| | | Ways to pay and ways to | | |
| | | save. | Running a house for a | |
| Maths and money | | | business. | |
| | | Jobs and pay. | | |
| | | | Borrowing (loans). | |
| | | Budgeting. | | |
| | | | Spending overseas. | |
| | | | Insurance. | |
| | Moving towards mastering | Numbers in standard form. | Multiply and divide numbers | |
| | the core content of the | | in standard. | |
| | curriculum. | Compare and order numbers | | |
| Standard form | | in standard form. | Add and subtract numbers in | |
| | | | standard form. | |
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| | | Term 2 | | |
|----------------|--------------------------|------------------------------|--------------------------------|----------------------------|
| | Moving towards mastering | Lines parallel to the axis | Find the equation of a line | Rearrange equations in the |
| Straight line | the core content of the | y=x and y=-x. | from a graph. | form y=mx+c. |
| graphs | curriculum. | | | |
| grapiis | | Explore ingredients. | Interpret gradient and | Graph inequalities. |
| | | | intercept of real-life graphs. | |
| | | Explore intercept Y=mx+c. | | |
| | Moving towards mastering | Direct proportion. | | Inverse proportion graphs. |
| | the core content of the | | | |
| | curriculum. | Direct proportion and | | Solve problems with ratio |
| Ratio and | | conversion graphs. | | |
| proportion | | | | |
| | | Inverse proportion. | | |
| | | | | |
| | | Ratio problems (whole part | | |
| | | given) | | |
| | Moving towards mastering | Draw and measure an angle. | Construct an interpret scale. | |
| | the core content of the | | | |
| | curriculum. | Construct triangles using | Construct perpendicular | |
| | | ASA, SAS, and SSS. | from or to appoint. | |
| Constructions | | | | |
| and congruence | | Construction angle bisector. | Construct more complex | |
| | | | polygons. | |
| | | | | |
| | | | Identify congruent figure | |
| | | | figures. | |
| | | | Congruent triangles. | |

| Year 9 Maths | Emerging | Developing | Secure | Mastery |
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| | Moving towards mastering | Recognise enlargement and | | Solve problems with similar |
| Similarity | the core content of the curriculum. | similarity. | | triangles. |
| | | Workout unknown length and angles in similar shapes. | | Ratio in right angle triangles. |
| | Moving towards mastering the core content of the curriculum. | Expand single brackets and simplify. | Expand more complex double bracket. | Factorise quadratic express expressions. |
| | | Factorise into a single bracket. | Use identities. | Solve quadratic express expression. |
| | | Expand double bracket | | Expand triple brackets. |
| Algebraic manipulation | | | | |
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| Term 3 | | | | |
|-------------|---------------------------------|-----------------------------|------------------------------|-------------------------------|
| | Moving towards mastering | Identify the hypotenuse. | Solve equations with square | Proof of Python Theo. |
| | the core content of the | | squares and square roots. | |
| Pythagoras' | curriculum. | Pythagoras theorem. | | Pythagoras theorem in 3-D. |
| theorem | | | Determine whether a triangle | |
| tiloorom | | | is right angle. | |
| | | | Use Pythagoras theorem and | |
| | M · · · · · · · · · · · · · · · | | coordinate axis. | 5 1: |
| | Moving towards mastering | Substitute into quadratic | Draw more complex | Draw cubic grass. |
| A1 11 | the core content of the | expressions. | quadratic graph. | |
| Non-linear | curriculum. | | | Interpret cubic grass. |
| graphs | | Draw quadratic graphs. | Interpret quadratic graphs. | |
| | | | | Interpret roots intersect and |
| | | | Interpret reciprocal and | turning points. |
| | | | exponential graph. | |
| | Moving towards mastering | Identify and represent set. | Use diagrams to work out | Compliment of a set. |
| | the core content of the | | probability. | |
| | curriculum. | Intersection of a set. | | |
| | | | Relative frequency. | |
| Drobobility | | Union of a set. | | |
| Probability | | | Probability from then | |
| | | Probability of a single. | diagrams. | |
| | | Expected outcomes. | | |
| | | Independent events. | | |

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| | Moving towards mastering | Enlargement (positive scale | Enlargement from a point | Enlargement (negative scale |
| | the core content of the | factor) | (positive scale factor) | factor) |
| | curriculum. | | | |
| Transformations | | Rotation about a point. | Enlargement bracket | Find the result of a series of |
| | | | (fractional scale factor) | transformations. |
| | | Translation. | | |
| | | | Describe an enlarge | |
| | | Reflection. | | |
| | | | Describe a translation | |
| | Moving towards mastering | Use one value to find another. | Manipulating equations. | Solve simultaneous |
| | the core content of the | | | equations (adjusting both) |
| | curriculum. | Introduction to simultaneous | Solving simultaneous | |
| Simultaneous | | equation. | equations (just one) | Solve simultaneous |
| equations | | | | equations by substitution. |
| equations | | Solve simultaneous | | |
| | | equations using graph. | | |
| | | | | |
| | | Solve simultaneous | | |
| | | equations | | |
| | Moving towards mastering | Identify hypotenuse opposite | Uses cosine and tangent | Key angles in right angle |
| | the core content of the | and adjacent sides. | ratios to find unknown | triangles. |
| | curriculum. | | angles. | |
| Trigonometry | | Use the tangent ratio to find | | Trigonometry in 3-D shapes. |
| | | known side lengths. | Choose the right method | |
| | | | | |
| | | Use sine and cosine ratios to | | |
| | | find unknown side length. | | |