

| Term            | Week | Focus                | Summary                              | Learning Outcomes   | Learning skills  |
|-----------------|------|----------------------|--------------------------------------|---|--|
| <b>Term 1.1</b> | 1    |                      | Baseline Assessments and orientation | Introduction lessons and baseline assessments.  | <ul style="list-style-type: none"> <li>Automaticity</li> <li>Meta-cognition</li> <li>Resilience</li> </ul>                           |
|                 | 2    | Number               | Indices                              | Apply the laws of indices, including with negative indices.   | <ul style="list-style-type: none"> <li>Critical and logical thinking</li> <li>Precision</li> <li>Intellectual playfulness</li> </ul> |
|                 | 3    | Number               | Standard Form                        | Explore writing numbers in standard form and apply the four operations.                                   | <ul style="list-style-type: none"> <li>Originality</li> <li>Fluent thinking</li> <li>Generalisation</li> </ul>                       |
|                 | 4    | Number               | Scale Factors                        | Using a calculator to multiple by scale factors.  | <ul style="list-style-type: none"> <li>Speed and accuracy</li> <li>Automaticity</li> <li>Flexible thinking</li> </ul>                |
|                 | 5    | Number               | Percentage Change                    | Write one number as a fraction of another.  | <ul style="list-style-type: none"> <li>Strategy planning</li> <li>Connection finding</li> <li>Self regulation</li> </ul>             |
|                 | 6    | Ratio and proportion | Reverse Percentages and multipliers  | Calculate the original price of an item in a sale.<br>Use of a calculator to calculate percentage change. | <ul style="list-style-type: none"> <li>Big picture thinking</li> <li>Problem solving</li> <li>Fluent thinking</li> </ul>             |

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|-----------------|---|--------------------------|-------------------------------|--|--|
| <b>Term 1.2</b> | 1 | Ratio and proportion     | Interest & Depreciation       | Calculate simple and compound interest and find the depreciated value of an item after a given amount of time.   | <ul style="list-style-type: none"> <li>Abstraction</li> <li>Critical and logical thinking</li> <li>Precision</li> </ul>              |
|                 | 2 | Ratio and proportion     | Speed, Distance & Time        | Find an average speed, given a distance and time.  | <ul style="list-style-type: none"> <li>Problem solving</li> <li>Precision</li> <li>Intellectual playfulness</li> </ul>               |
|                 | 3 | Ratio and proportion     | Speed, Distance & Time Graphs | Draw a speed, distance and time graph.   | <ul style="list-style-type: none"> <li>Big picture thinking</li> <li>Hard working</li> <li>Self regulation</li> </ul>                |
|                 | 4 | Ratio and proportion     | Currency Conversion           | Convert between several currencies given exchange rates.<br>Convert between several currencies given exchange rates.<br>Convert between several currencies given exchange rates. | <ul style="list-style-type: none"> <li>Problem solving</li> <li>Fluent thinking</li> <li>Generalisation</li> </ul>                   |
|                 | 5 | Shape, Space and Measure | Pythagoras' Theorem in 3D     | Find the lengths of space diagonals.   | <ul style="list-style-type: none"> <li>Critical and logical thinking</li> <li>Precision</li> <li>Intellectual playfulness</li> </ul> |
|                 | 6 | Shape, Space and Measure | Pythagoras' Theorem in 3D     | Find the lengths of space diagonals.   | <ul style="list-style-type: none"> <li>Problem solving</li> <li>Big picture thinking</li> <li>Hard working</li> </ul>                |