## Year Level: 7

Subject: Mathematics
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\begin{array}{|c|l|l|l|}\hline \text { Week } & \text { Unit } & \text { Learning Focus } & \text { Victorian Curriculum } \\
\hline \text { Term 1 } 1 & \begin{array}{l}\text { Shapes, } \\
\text { Transformations } \\
\text { and Cartesian } \\
\text { Planes }\end{array} & \begin{array}{l}\text { Drawing 2D shapes and 3D } \\
\text { objects. } \\
\text { Symmetry of 2D shapes and } \\
\text { 3D objects. } \\
\text { Describing transformations. }\end{array} & \begin{array}{l}\text { Draw different views of prisms and solids formed } \\
\text { from combinations of prisms. (VCMMG260) }\end{array}
$$ <br>
\hline Describe translations, reflections in an axis, and <br>
rotations of multiples of 90' on the Cartesian plane <br>
using coordinates. Identify line and rotational <br>

symmetries. (VCMMG261)\end{array}\right]\)| Given coordinates, plot points on the Cartesian |
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| plane, and find coordinates for a given point. |
| (VCMNA255) |


|  |  | Assign probabilities for outcomes of events. | Assign probabilities to the outcomes of events and determine probabilities for events. (VCMSP267) |
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| 5-7 | Fractions multiplying and dividing | Multiply and divide fractions. <br> Convert between fractions and decimals and compare values. <br> Convert worded questions into fraction and decimal calculations. | Multiply and divide fractions and decimals using efficient written strategies and digital technologies. (VCMNA244) <br> Express one quantity as a fraction of another, with and without the use of digital technologies. <br> (VCMNA245) |
| 8-9 | Positive and negative numbers | Integers on the number line and number plane. <br> Adding, subtracting, multiplying and dividing of integers. | Compare, order, add and subtract integers. (VCMNA241) |
| 10 | Rates and Ratios | Connecting fractions and percentages to ratios. <br> Using ratios to solve problems. | Recognise and solve problems involving simple ratios. (VCMNA249) |
| Term 3 1-4 | Fractions, Decimals and Percentages | Place value and comparing decimals. <br> Rounding decimals. Apply the operations $+,-, x, \div$ to decimals. <br> Convert between fractions, decimals and percentages and compare values. <br> Convert worded questions into fraction, decimal and percentage calculations. | Round decimals to a specified number of decimal places. (VCMNA246) <br> Connect fractions, decimals and percentages and carry out simple conversions. (VCMNA247) <br> Find percentages of quantities and express one quantity as a percentage of another, with and without digital technologies. (VCMNA248) <br> Recognise and solve problems involving simple ratios. (VCMNA249) |
| 5-7 | Financial Mathematics | Calculating items costs per unit, gm, kg. | Investigate and calculate 'best buys', with and without digital technologies. (VCMNA250) |
| 8-10 | Measurement and Geometry | Convert units of length. <br> Define perimeter and calculate basis and composite shapes. <br> Calculate areas of basic and composite shapes. <br> Apply relevant formulae. Utilise correct units of measure. <br> Measuring and constructing angles. <br> Types of angles and definitions. | Establish the formulas for areas of rectangles, triangles and parallelograms and use these in problem solving. (VCMMG258) <br> Calculate volumes of rectangular prisms. (VCMMG259) <br> Identify corresponding, alternate and co-interior angles when two straight lines are crossed by a transversal. (VCMMG264) <br> Investigate conditions for two lines to be parallel and solve simple numerical problems using reasoning. (VCMMG265) <br> Demonstrate that the angle sum of a triangle is $180^{\circ}$ and use this to find the angle sum of a quadrilateral. (VCMMG263) |


|  |  | Properties of triangles and <br> quadrilaterals. <br> Parallel and perpendicular <br> lines. | Classify triangles according to their side and angle <br> properties and describe quadrilaterals. <br> (VCMMG262) |
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| Term 4 4 | Linear and Non <br> linear <br> relationships | Determine patterns and rules <br> from a sequence. <br> Apply and determine <br> rules/formulae. | Solve simple linear equations. (VCMNA256) <br> Substitute numbers into <br> formulae. <br> Investigate, interpret and analyse graphs from real <br> life data, including consideration of domain and <br> range. (VCMNA257) |
| $6-9$ | Statistics | Classifying data. <br> worded question. | Displaying data in tables. <br> Measures of centre. |
| Measures of spread. |  |  |  |

