

## Primary 4/5 Mathematics

Focus Area	Learning Outcomes
<p><b>NUMBER AND ALGEBRA</b></p> <p>1. Whole Numbers</p> <p style="margin-left: 20px;">a. Numbers up to 100 000</p> <p style="margin-left: 20px;">b. Numbers up to 10 million</p> <p style="margin-left: 20px;">c. Factors and Multiples</p> <p style="margin-left: 20px;">d. Four Operations</p>	<ul style="list-style-type: none"> <li>• Use appropriate notations, symbols and conventions to present and communicate mathematical idea</li> <li>• Reason inductively and deductively by:               <ul style="list-style-type: none"> <li>* Observing patterns, similarities and differences</li> <li>* Drawing logical conclusions and making inferences</li> <li>* Explaining or justifying solutions, writing out the solutions mathematically</li> </ul> </li> <li>• Make connections within mathematics and between mathematics and everyday life</li> <li>• Apply mathematics concepts and skills to solve problems in a variety of contexts within or outside mathematics, including:               <ul style="list-style-type: none"> <li>* Identifying the appropriate mathematical representations for a problem</li> <li>* Using appropriate mathematical concepts, skills (including tools and algorithm) to solve a problem</li> <li>* Interpreting the mathematical solution in the context of the problem and making sense of the solution</li> </ul> </li> <li>• Use thinking skills such as:               <ul style="list-style-type: none"> <li>* Classifying</li> <li>* Comparing</li> <li>* Sequencing</li> <li>* Generalising</li> <li>* Induction</li> <li>* Deduction</li> <li>* Analysing (from whole to parts)</li> <li>* Synthesizing (from parts to whole)</li> </ul> </li> <li>• Use problem-solving model such as Polya's model</li> <li>• Use heuristics such as:               <ul style="list-style-type: none"> <li>* Drawing a diagram</li> <li>* Tabulating</li> <li>* Guess and check</li> <li>* Working backwards</li> <li>* Simplifying a problem</li> <li>* Considering special cases</li> </ul> </li> </ul>
<p><b>DECIMALS</b></p> <p>1. Decimals up to 3 decimal places</p> <p>2. Addition and Subtraction</p> <p>3. Multiplication and Division</p> <p>4. Four Operations</p>	
<p><b>PERCENTAGE</b></p> <p>1. Percentage</p>	
<p><b>RATIO</b></p> <p>1. Ratio</p>	
<p><b>RATE AND SPEED</b></p> <p>1. Rate</p>	
<p><b>MONEY</b></p>	
<p><b>FRACTIONS</b></p> <p>1. Concepts of Fractions</p> <p>2. Equivalent Fractions</p> <p>3. Mixed Numbers and Improper Fractions</p> <p>4. Fraction of a Set of Objects</p> <p>5. Addition and Subtraction</p> <p>6. Fraction and Division</p>	
<p><b>MEASUREMENT AND GEOMETRY</b></p> <p>1. Time</p>	
<p><b>AREA AND VOLUME</b></p> <p>1. Area and Perimeter</p> <p>2. Area of a Triangle</p> <p>3. Volume of Cube and Cuboid</p>	
<p><b>GEOMETRY</b></p> <p>1. Angles</p> <p>2. Rectangle and Square</p> <p>3. Line Symmetry</p> <p>4. Triangle</p> <p>5. Parallelogram, Rhombus and Trapezium</p>	
<p><b>STATISTICS</b></p> <p>1. Data Presentation and Interpretation</p>	

a. Table and Line Graphs 2. Data Analysis 1. Average of a Set of Data	

