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# Mathematics Grade 7



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Grade 7 Term 1	Numbers, Operations and Relationships	Patterns, Functions and Algebra	Shape and Space	Measurement	Data Handling	Recording	Reflection
<b>Unit 1</b> <b>Whole numbers</b>	Exercise 1 Mental calculations <b>TG1; LB1</b>  Exercise 2 Ordering and comparing whole numbers <b>TG2; LB2</b>  Exercise 3 Properties of whole numbers <b>TG2; LB4</b>  Exercise 4 Addition and subtraction of whole numbers <b>TG3; LB5</b>  Exercise 5 Multiplication and division of whole numbers <b>TG3; LB6</b>  Exercise 6 Calculation techniques <b>TG5; LB9</b>  Exercise 7 Multiples and factors <b>TG6; LB11</b>						

Grade 7 Term 1	Numbers, Operations and Relationships	Patterns, Functions and Algebra	Shape and Space	Measurement	Data Handling	Recording	Reflection
	<p>Exercise 8 Prime factors <b>TG 6; LB 14</b></p> <p>Exercise 9 Problem solving including rate and ratio <b>TG 7; LB 15</b></p> <p>Exercise 10 Problem solving in financial contexts, including profit, loss and discount <b>TG 8; LB 17</b></p> <p>Exercise 11 Problem solving in financial contexts, including budgets, accounts, loans and simple interest <b>TG 9; LB 19</b></p>						
<b>Unit 2 Exponents</b>	<p>Exercise 1 Comparing and representing numbers in exponential form <b>TG 10; LB 22</b></p> <p>Exercise 2 Calculations using numbers in exponential form <b>TG 11; LB 24</b></p> <p>Exercise 3 Solving problems <b>TG 11; LB 25</b></p>						
<b>Unit 3 Construction of geometric figures</b>			<p>Exercise 1 Measuring angles <b>TG 12; LB 25</b></p>				

Grade 7 Term 1	Numbers, Operations and Relationships	Patterns, Functions and Algebra	Shape and Space	Measurement	Data Handling	Recording	Reflection
			Exercise 2 Constructing angles <b>TG 12; LB 28</b>  Exercise 3 Constructing circles <b>TG 13; LB 29</b>  Exercise 4 Constructing parallel and perpendicular lines <b>TG 13; LB 30</b>  Exercise 5 Revision of terminology <b>TG 13; LB 31</b>				
<b>Unit 4 Geometry of 2D shapes</b>			Exercise 1 Classifying triangles <b>TG 14; LB 31</b>  Exercise 2 Classifying quadrilaterals <b>TG 15; LB 33</b>  Exercise 3 Parts of a circle <b>TG 15; LB 34</b>  Exercise 4 Similar and congruent 2D shapes <b>TG 15; LB 35</b>  Exercise 5 Problem solving <b>TG 16; LB 37</b>				
<b>Unit 5 Geometry of Straight lines</b>			Exercise 1 Types of lines <b>TG 16; LB 38</b>				

Grade 7 Term 1	Numbers, Operations and Relationships	Patterns, Functions and Algebra	Shape and Space	Measurement	Data Handling	Recording	Reflection
			Exercise 2 Parallel lines <b>TG 17; LB 39</b>  Exercise 3 Perpendicular lines <b>TG 17; LB 41</b>				
<b>Unit 6</b> <b>Common fractions</b>	Exercise 1 Ordering, comparing and simplifying fractions <b>TG 30; LB 49</b>  Exercise 2 Calculations using fractions <b>TG 31; LB 50</b>  Exercise 3 Problem solving <b>TG 32; LB 53</b>  Exercise 4 Revision of percentages <b>TG 32; LB 54</b>  Exercise 5 Calculate the percentage of a whole <b>TG 33; LB 55</b>  Exercise 6 Calculate percentage increase or decrease of whole numbers <b>TG 33; LB 56</b>						

Grade 7 Term 1	Numbers, Operations and Relationships	Patterns, Functions and Algebra	Shape and Space	Measurement	Data Handling	Recording	Reflection
	Exercise 7 Solve problems in context involving percentages <b>TG 34; LB 58</b>  Exercise 8 Equivalent forms <b>TG 34; LB 59</b>						

Grade 7 Term 2	Numbers, Operations and Relationships	Patterns, Functions and Algebra	Shape and Space	Measurement	Data Handling	Recording	Reflection
<b>Unit 7 Decimal fractions</b>	Exercise 1 Ordering and comparing decimal fractions <b>TG 35; LB 60</b>  Exercise 2 Addition and subtraction of decimal fractions <b>TG 36; LB 62</b>  Exercise 3 Multiplication Of decimal fractions <b>TG 37; LB 63</b>  Exercise 4 Division of decimal fractions <b>TG 38; LB 64</b>  Exercise 5 Equivalent forms <b>TG 39; LB 65</b>  Exercise 6 Problem solving <b>TG 39; LB 66</b>						

Grade 7 Term 2	Numbers, Operations and Relationships	Patterns, Functions and Algebra	Shape and Space	Measurement	Data Handling	Recording	Reflection
<b>Unit 8 Functions and relationships</b>		Exercise 1 Input and output values in flow diagrams <b>TG 40; LB 66</b> Exercise 2 Input and output values using tables <b>TG 40; LB 67</b> Exercise 3 Equivalent forms <b>TG 40; LB 69</b>					
<b>Unit 9 Area and perimeter of 2D shapes</b>				Exercise 1 Calculating perimeter <b>TG 41; LB 69</b> Exercise 2 Calculating the area of 2D shapes <b>TG 41; LB 71</b> Exercise 3 Problem solving <b>TG 41; LB 72</b>			
<b>Unit 10 Surface area and volume of 3D shapes</b>				Exercise 1 Investigating nets of cubes and rectangular prisms <b>TG 43; LB 75</b> Exercise 2 Surface area and volume <b>TG 43; LB 76</b> Exercise 3 Conversions of units of measurement <b>TG 44; LB 77</b>			

Grade 7 Term 2	Numbers, Operations and Relationships	Patterns, Functions and Algebra	Shape and Space	Measurement	Data Handling	Recording	Reflection
				Exercise 4 Problem solving <b>TG 44; LB 78</b>			

Grade 7 Term 3	Numbers, Operations and Relationships	Patterns, Functions and Algebra	Shape and Space	Measurement	Data Handling	Recording	Reflection
<b>Unit 11 Numeric and geometric patterns</b>		Exercise 1 Investigate number patterns <b>TG 64; LB 84</b>  Exercise 2 Extending number patterns and predicting terms <b>TG 65; LB 86</b>  Exercise 3 Geometric patterns <b>TG 65; LB 87</b>  Exercise 4 Challenge <b>TG 66; LB 88</b>					
<b>Unit 12 Functions and algebra</b>		Exercise 1 Input and output values <b>TG 66; LB 89</b>  Exercise 2 Equivalent forms <b>TG 67; LB 91</b>					
<b>Unit 13 Algebraic expressions</b>		Exercise 1 Algebraic language <b>TG 67; LB 92</b>  Exercise 2 Use algebraic expressions in formulae <b>TG 68; LB 93</b>					



Grade 7 Term 3	Numbers, Operations and Relationships	Patterns, Functions and Algebra	Shape and Space	Measurement	Data Handling	Recording	Reflection
<b>Unit 14</b> <b>Algebraic equations</b>		Exercise 1 Write number sentences to describe problem situations <b>TG 69; LB 94</b> Exercise 2 Analyse and interpret number sentences that describe a given situation <b>TG 69; LB 95</b> Exercise 3 Solve and complete number sentences <b>TG 70; LB 95</b> Exercise 4 Determine the numerical value of an expression by substitution <b>TG 71; LB 96</b>					
<b>Unit 15</b> <b>Graphs</b>		Exercise 1 Interpreting graphs <b>TG 71; LB 97</b> Exercise 2 Drawing graphs <b>TG 73; LB 102</b> Challenge <b>TG 75; LB 105</b>					
<b>Unit 16</b> <b>Transformation geometry</b>			Exercise 1 Rotation <b>TG 76; LB 106</b> Exercise 2 Reflection <b>TG 77; LB 108</b>				

Grade 7 Term 3	Numbers, Operations and Relationships	Patterns, Functions and Algebra	Shape and Space	Measurement	Data Handling	Recording	Reflection
			Exercise 3 Translation <b>TG 78; LB 108</b>  Exercise 4 Rotation, reflection and translation <b>TG 78; LB 109</b>  Exercise 5 Symmetry <b>TG 79; LB 110</b>  Exercise 6 Enlargements and reductions <b>TG 80; LB 111</b>				
<b>Unit 17</b> <b>Geometry of 3D</b> <b>objects</b>			Exercise 1 Classifying 3D objects <b>TG 82; LB 112</b>  Exercise 2 Building 3D models <b>TG 83; LB 115</b>				

Grade 7 Term 4	Numbers, Operations and Relationships	Patterns, Functions and Algebra	Shape and Space	Measurement	Data Handling	Recording	Reflection
<b>Unit 18</b> <b>Integers</b>	Exercise 1 Counting, ordering and comparing integers <b>TG 96; LB 123</b>  Exercise 2 Addition of integers <b>TG 96; LB 124</b>						

Grade 7 Term 4	Numbers, Operations and Relationships	Patterns, Functions and Algebra	Shape and Space	Measurement	Data Handling	Recording	Reflection
	Exercise 3 Subtraction of integers <b>TG 98; LB 125</b>  Exercise 4 Properties of integers <b>TG 98; LB 126</b>  Exercise 5 Problem solving using integers and number lines <b>TG 99; LB 127</b>						
<b>Unit 19</b> <b>Numeric and geometric patterns</b>		Exercise 1 Investigate number patterns with a constant difference <b>TG 100; LB 130</b>  Exercise 2 Investigate and extend patterns involving a constant ratio <b>TG 101; LB 132</b>  Exercise 3 Geometric patterns <b>TG 101; LB 132</b>					
<b>Unit 20</b> <b>Functions and relationships</b>		Exercise 1 Input and output values <b>TG 102; LB 134</b>  Exercise 2 Equivalent forms <b>TG 103; LB 136</b>					
<b>Unit 21</b> <b>Algebraic expressions</b>		Exercise 1 Algebraic language <b>TG 104; LB 137</b>					

Grade 7 Term 4	Numbers, Operations and Relationships	Patterns, Functions and Algebra	Shape and Space	Measurement	Data Handling	Recording	Reflection
		Exercise 2 Recognise and interpret rules or relationships represented in symbolic form <b>TG 105; LB 139</b>					
<b>Unit 22</b> <b>Algebraic equations</b>		Exercise 1 Write number sentences to describe problem situations <b>TG 105; LB 140</b>  Exercise 2 Analyse and interpret number sentences to describe a given situation <b>TG 105; LB 141</b>  Exercise 3 Solve and complete number sentences <b>TG 106; LB 141</b>  Exercise 4 Determine the numerical value of an expression by substitution <b>TG 107; LB 142</b>					
<b>Unit 23</b> <b>Collect, organize, summarise, represent, analyse, interpret and report data</b>					Exercise 1 Collect data <b>TG 108; LB 143</b>		

Grade 7 Term 4	Numbers, Operations and Relationships	Patterns, Functions and Algebra	Shape and Space	Measurement	Data Handling	Recording	Reflection
					Exercise 2 Organise and summarise data <b>TG 108; LB 145</b>  Exercise 3 Represent data <b>TG 110; LB 148</b>  Exercise 4 Analyse, interpret and report data <b>TG 112; LB 151</b>		
Unit 24 Probability					Exercise 1 Vocabulary <b>TG 114; LB 155</b>  Exercise 2 Calculating probability <b>TG 114; LB 157</b>  Exercise 3 Probability experiments with a deck of cards <b>TG 115; LB 159</b>		

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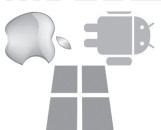
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