

MATHEMATICS YEAR 6 YEARLY PLAN

Week	Area	Topic	Learning Area	Learning Objectives	Learning Outcomes	Notes
1	1. Numbers	1. Whole Numbers	1. Numbers up to seven digits	1. Develop number sense up to seven digits.	i. Name and write numbers up to seven digits.	<p><u>KITS</u> Specific courseware, powerpoint presentation, place value frame, number cards, flash cards, picture cards.</p> <p><u>Curriculum Specifications</u> Refer to page 1</p> <p><u>Thinking Skills</u> 1. Listing 2. Visualizing</p>
2	1. Numbers	1. Whole Numbers	1. Numbers up to seven digits	1. Develop number sense up to seven digits.	ii. Determine the place value of the digits in any whole number up to seven digits. iii. Express whole numbers in a) decimals b) fractions of a million and vice versa	<p><u>KITS</u> Specific courseware, powerpoint presentation, place value frame, number cards, flash cards, picture cards.</p> <p><u>Curriculum Specifications</u> Refer to page 1 & 2</p> <p><u>Thinking Skills</u> 1. Comparing & Contrasting 2. Sequencing 3. Listing 4. Visualizing</p>
3	1. Numbers	1. Whole Numbers	1. Numbers up to seven digits	1. Develop number sense up to seven digits.	iv. Compare number values up to seven digits. v. Round off numbers to the nearest tens, hundreds, thousands, ten thousands, hundred thousands and millions.	<p><u>KITS</u> Specific courseware, powerpoint presentation, place value frame, number cards, flash cards, picture cards.</p>

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						<u>Curriculum Specifications</u> Refer to page 2 <u>Thinking Skills</u> 1. Translating 2. Sequencing 3. Analysing 4. Elaborating
4	1. Numbers	1. Whole Numbers	2. Basic operations with numbers up to seven digits	2. Add, subtract, multiply and divide numbers involving numbers up to seven digits.	i. Add any two to four numbers up to 9 999 999. ii. Subtract a) one number from a bigger number less than 10 000 000. b) successively from a bigger number less than 10 000 000.	<u>KITS</u> Specific courseware, powerpoint presentation, place value frame, number cards, flash cards, picture cards, word cards. <u>Curriculum Specifications</u> Refer to page 3 <u>Thinking Skills</u> 1. Comparing & Contrasting 2. Decision Making 3. Problem Solving
5	1. Numbers	1. Whole Numbers	2. Basic operations with numbers up to seven digits	2. Add, subtract, multiply and divide numbers involving numbers up to seven digits.	iii. Multiply up to six-digit numbers with a) a one digit number, b) a two-digit number, c) 10, 100 and 1 000 iv. Divide numbers of up to seven digits by a) a one-digit number, b) 10, 100 and 1 000, c) two-digit number.	<u>KITS</u> Specific courseware, powerpoint presentation, place value frame, number cards, flash cards. <u>Curriculum Specifications</u> Refer to page 4 <u>Thinking Skills</u> 1. Elaborating 2. Drawing Conclusion 3. Problem Solving

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6	1. Numbers	1. Whole Numbers	2. Basic operations with numbers up to seven digits	2. Add, subtract, multiply and divide numbers involving numbers up to seven digits.	v. Solve a) addition, b) subtraction, c) multiplication, d) division problems involving numbers up to seven digits.	<u>KITS</u> Specific courseware, powerpoint presentation, place value frame, number cards, word cards. <u>Curriculum Specifications</u> Refer to page 5 <u>Thinking Skills</u> 1. Elaborating 2. Drawing Conclusion 3. Problem Solving
7	1. Numbers	1. Whole Numbers	3. Mixed Operations With Numbers Up To Seven Digits	3. Perform mixed operations with whole numbers.	i. Compute mixed operations problems involving addition and multiplication. ii. Compute mixed operations problems involving subtraction and division. iii. Compute mixed operations problems involving brackets. iv. Solve problems involving mixed operations on numbers of up to seven digits.	<u>KITS</u> Specific courseware, powerpoint presentation, place value frame, number cards, word cards. <u>Curriculum Specifications</u> Refer to page 6 <u>Thinking Skills</u> 1. Elaborating 2. Decision Making 3. Drawing Conclusion 4. Problem Solving
8	1. Numbers	2. Fractions	1. Addition Of Fractions	1. Add three mixed numbers with denominators of up to 10	i. Add three mixed numbers with the same denominator of up to 10. ii. Add three mixed numbers with different denominator of up to 10. iii. Solve problems involving	<u>KITS</u> Specific courseware, powerpoint presentation, place value frame, number cards, word cards, Cuisenaire rods <u>Curriculum Specifications</u> Refer to page 7

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					addition of mixed numbers.	<u>Thinking Skills</u> 1. Elaborating 2. Drawing Conclusion 3. Problem Solving
9	1. Numbers	2. Fractions	2. Subtraction Of Fractions	2. Subtract mixed numbers with denominators of up to 10.	i. Subtract involving three mixed numbers with the same denominator of up to 10. ii. Subtract involving three mixed numbers with different denominator of up to 10. iii. Solve problems involving subtraction of mixed numbers.	<u>KITS</u> Specific courseware, powerpoint presentation, place value frame, number cards, word cards, Cuisenaire rods <u>Curriculum Specifications</u> Refer to page 8 <u>Thinking Skills</u> 1. Elaborating 2. Drawing Conclusion 3. Problem Solving
10	1. Numbers	2. Fractions	3. Multiplication of Fractions	3. Multiply any mixed numbers with a whole numbers up to 1 000. 4 Divide fractions with a whole number and a fraction.	i. Multiply mixed numbers with a whole number. ii. Divide fractions with a) a whole number b) a fraction	<u>KITS</u> Specific courseware, powerpoint presentation, place value frame, number cards, word cards, Cuisenaire rods <u>Curriculum Specifications</u> Refer to page 9 & 10 <u>Thinking Skills</u> 1. Elaborating 2. Drawing Conclusion 3. Problem Solving
11	1. Numbers	2. Fractions	3. Multiplication of Fractions	4 Divide fractions with a whole number and a fraction.	iii. Divide mixed numbers with a) a whole number b) a fraction	<u>KITS</u> Specific courseware, powerpoint presentation, place value frame, number cards, word cards, Cuisenaire rods

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						<u>Curriculum Specifications</u> Refer to page 10 <u>Thinking Skills</u> 1. Elaborating 2. Drawing Conclusion 3. Problem Solving
12	1. Numbers	3. Decimals	1. Mixed Operations With Decimals	1. Perform mixed operations of addition and subtraction of decimals of up to 3 decimal places.	i. Add and subtract three to four decimal numbers of up to 3 decimal places, involving a) decimal numbers only b) whole numbers and decimal numbers.	<u>KITS</u> Specific courseware, powerpoint presentation, place value frame, number cards, word cards, Cuisenaire rods <u>Curriculum Specifications</u> Refer to page 11 <u>Thinking Skills</u> 1. Elaborating 2. Decision Making 3. Drawing Conclusion
13	1. Numbers	4. Percentage	1. Relationship Between Percentage, Fraction And Decimal	1. Relate fractions and decimals to percentage.	i. Convert mixed numbers to percentage. ii. Convert decimal numbers of value more than 1 to percentage.	<u>KITS</u> Specific courseware, powerpoint presentation, place value frame, number cards, word cards, 100 square paper, Cuisenaire rods <u>Curriculum Specifications</u> Refer to page 12 <u>Thinking Skills</u> 1. Elaborating 2. Drawing Conclusion 3. Visualising 4. Problem Solving

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14	1. Numbers	4. Percentage	1. Relationship Between Percentage, Fraction And Decimal	1. Relate fractions and decimals to percentage.	iii. Find the value for a given percentage of a quantity. iv. Solve problems in real context involving relationships between percentage, fractions and decimals.	<u>KITS</u> Specific courseware, powerpoint presentation, place value frame, number cards, word cards, 100 square paper, Cuisenaire rods <u>Curriculum Specifications</u> Refer to page 13 <u>Thinking Skills</u> 1. Elaborating 2. Drawing Conclusion 3. Visualising 4. Problem Solving
15	1. Numbers	5. Money	1. Money to RM10 Million	1. Use and apply number sense in real context involving money.	i. Perform mixed operations with money up to a value of RM10 million. ii. Solve problems in real context involving computation of money.	<u>KITS</u> Specific courseware, powerpoint presentation, simulation notes and coins, cut out notes and coins, flash cards <u>Curriculum Specifications</u> Refer to page 14 <u>Thinking Skills</u> 1. Comparing & Contrasting 2. Elaborating 3. Drawing Conclusion 4. Problem Solving
16	2. Measures	6. Time	1. Duration	1. Use and apply knowledge of time to find the duration.	i. Calculate the duration of an event in between a) months b) years c) dates	<u>KITS</u> Analogue clock face, calendars, flash cards, number cards, word cards, phrase cards, sentence cards <u>Curriculum Specifications</u> Refer to page 15

Week	Area	Topic	Learning Area	Learning Objectives	Learning Outcomes	Notes
						<u>Thinking Skills</u> 1. Planning 2. Elaborating 3. Listing
17	2. Measures	6. Time	1. Duration	1. Use and apply knowledge of time to find the duration.	ii. Compute time period from situations expressed in fractions of duration. iii. Solve problems in real context involving computation of time duration.	<u>KITS</u> Analogue clock face, calendars, flash cards, number cards, word cards, phrase cards, sentence cards <u>Curriculum Specifications</u> Refer to page 15 & 16 <u>Thinking Skills</u> 1. Planning 2. Elaborating 3. Decision Making 4. Problem Solving
18	2. Measures	7. Length	1. Computation Of Length	1. Use and apply fractional computation to problems involving length.	i. Compute length from a situation expressed in fraction. iii. Solve problems in real context involving computation of length.	<u>KITS</u> Specific courseware, powerpoint presentation, measuring tapes, rulers, objects of different length such as pencils, rope, ribbons place value frame, word cards, sentence cards <u>Curriculum Specifications</u> Refer to page 17 <u>Thinking Skills</u> 1. Comparing & Contrasting 2. Sequencing 3. Decision Making 4. Problem Solving 5. Relaying Information

Week	Area	Topic	Learning Area	Learning Objectives	Learning Outcomes	Notes
19	2. Measures	8. Mass	1. Computation Of Mass	1. Use and apply fractional computation to problems involving mass.	i. Compute mass from a situation expressed in fraction. ii. Solve problems in real context involving computation of mass.	<u>KITS</u> Specific courseware, powerpoint presentation, weighing scales, flash cards, number cards, word cards, phrase cards, sentence cards, <u>Curriculum Specifications</u> Refer to page 18 <u>Thinking Skills</u> 1. Comparing & Contrasting 2. Sequencing 3. Decision Making 4. Problem Solving 5. Relaying Information
20	2. Measures	9. Volume of Liquid	1. Computation Of Volume Of Liquid	1. Use and apply fractional computation to problems involving volume of liquid.	i. Compute volume of liquid from a situation expressed in fraction. ii. Solve problems in real context involving computation of volume of liquid.	<u>KITS</u> Specific courseware, powerpoint presentation, measuring cylinders, variety of containers such as bottles, jugs, cans, cups, word cards, sentence cards <u>Curriculum Specifications</u> Refer to page 19 <u>Thinking Skills</u> 1. Comparing & Contrasting 2. Sequencing 3. Listing 4. Problem Solving 5. Relaying Information

Week	Area	Topic	Learning Area	Learning Objectives	Learning Outcomes	Notes
21	3. Shape and Space	10. Shape and Space	1. Two-Dimensional Shapes	1. Find the perimeter and area of composite two-dimensional shapes.	i. Find the perimeter of a two-dimensional composite shape of two or more quadrilaterals and triangles.	<p><u>KITS</u> Specific courseware, powerpoint presentation, cut out cards of various polygons, pictures cards, word cards, sentence cards</p> <p><u>Curriculum Specifications</u> Refer to page 20</p> <p><u>Thinking Skills</u> 1. Comparing & Contrasting 2. Elaborating 3. Planning</p>
22	3. Shape and Space	10. Shape and Space	1. Two-Dimensional Shapes	1. Find the perimeter and area of composite two-dimensional shapes.	<p>ii. Find the area of a two-dimensional composite shape of two or more quadrilaterals and triangles.</p> <p>iii. Solve problems in real contexts involving calculation of perimeter and area of two-dimensional shapes.</p>	<p><u>KITS</u> Specific courseware, powerpoint presentation, cut out cards of various polygons, pictures cards, word cards, sentence cards</p> <p><u>Curriculum Specifications</u> Refer to page 21</p> <p><u>Thinking Skills</u> 1. Comparing & Contrasting 2. Elaborating 3. Problem Solving</p>
23	3. Shape and Space	10. Shape and Space	1. Three-Dimensional Shapes	1. Find the surface area and volume of composite three-dimensional shapes.	i. Find the surface area of a three-dimensional composite shape of two or more cubes and cuboids.	<p><u>KITS</u> Specific courseware, powerpoint presentation, cut out cards of various polygons, pictures cards, word cards, sentence cards</p>

Week	Area	Topic	Learning Area	Learning Objectives	Learning Outcomes	Notes
						<u>Curriculum Specifications</u> Refer to page 22 <u>Thinking Skills</u> 1. Comparing & Contrasting 2. Elaborating 3. Planning
24	3. Shape and Space	10. Shape and Space	1. Three-Dimensional Shapes	1. Find the surface area and volume of composite three-dimensional shapes.	ii. Find volume of a three-dimensional composite shape of two or more cubes and cuboids. iii. Solve problems in real contexts involving calculation of surface area and volume of three-dimensional shapes.	<u>KITS</u> Specific courseware, powerpoint presentation, cut out cards of various polygons, pictures cards, word cards, sentence cards <u>Curriculum Specifications</u> Refer to page 22 & 23 <u>Thinking Skills</u> 1. Comparing & Contrasting 2. Elaborating 3. Problem Solving
25	4. Statistics	11. Data Handling	1. Average	1. Understand and compute average.	i. Calculate the average of up to five numbers. ii. Solve problems in real contexts involving average.	<u>KITS</u> Specific courseware, powerpoint presentation, newspaper cutting, pictures cards, calendars, cards with tables, word cards, sentence cards <u>Curriculum Specifications</u> Refer to pages 24 & 25 <u>Thinking Skills</u> 1. Comparing & Contrasting 2. Elaborating 3. Problem Solving

Week	Area	Topic	Learning Area	Learning Objectives	Learning Outcomes	Notes
26	4. Statistics	11. Data Handling	1. Organising and Interpreting Data	1. Organise and interpret data from tables and charts.	<ul style="list-style-type: none"> i. Construct a pie chart from a given set of data. ii. Determine the frequency, mode, range, mean, maximum and minimum value from a pie chart. 	<p><u>KITS</u> Specific courseware, powerpoint presentation, newspaper cutting, pictures cards, calendars, cards with tables, word cards, sentence cards</p> <p><u>Curriculum Specifications</u> Refer to pages 26 & 27</p> <p><u>Thinking Skills</u></p> <ol style="list-style-type: none"> 1. Comparing & Contrasting 2. Elaborating 3. Interpreting Information 4. Planning