



## Course Description

Subject: Mathematics 1

Code: MA11101

5 Periods /Week

5.0 Credits

Class: Primary 1A-B

Semester 1-2/2014

Instructors : Mr. Enrico / Ms. Nittaya

Unit	Standard	Indicators
1. Numbers 0 to 10 1.1 Reading and writing numbers(Asean) 1.2 Counting forward and Backward 1.3 Ordering numbers 1.4 Comparing numbers	M 1.1      M 6.1	P.1/1 Write and read Hindu-Arabic and Thai numerals showing quantity of objects or cardinal numbers not exceeding 100, and 0.   P.1/2 Compare and arrange sequence of cardinal numbers not exceeding 100, and 0.  P.1/4 Accurately use mathematical language and symbols for communication of concepts and presentation
2.Addition within 9 2.1 Meaning of Addition 2.2 Addition 2.3 Word problems	M 1.2      M 6.1	P.1/1 Add, subtract and mix addition and subtraction of cardinal numbers not exceeding 100, and 0, as well as be aware of validity of the answers.  P.1/2 Analyse and find answers to problems and mix-problems of cardinal numbers not exceeding 100, and 0,  P.1/1 Apply diverse methods for problem-solving. P.1/2 Appropriately apply mathematical knowledge, skills and processes for problem-solving in various situations.  P.1/3 Suitably provide reasoning for decision-making and appropriately present the conclusions reached.



Unit	Standard	Indicators
<p>4. Numbers up to 20</p> <p>4.1 Reading and writing numbers</p> <p>4.2 Place value</p> <p>4.3 Comparing numbers</p> <p>4.4 Ordering numbers</p>	<p>M 1.1</p> <p>M 6.1</p>	<p>P.1/ 1 Write and read Hindu-Arabic and Thai numerals showing quantity of objects or cardinal numbers not exceeding 100, and 0.</p> <p>P.1/2 Compare and arrange sequence of cardinal numbers not exceeding 100, and 0.</p> <p>P.1/4 Accurately use mathematical language and symbols for communication of concepts and presentation</p>
<p>5.Addition and subtraction within 20</p> <p>5.1 Addition</p> <p>5.2 Subtraction</p> <p>5.3 Word problems</p>	<p>M 1.2</p> <p>M 6.1</p>	<p>P.1/1 Add, subtract and mix addition and subtraction of cardinal numbers not exceeding 100, and 0, as well as be aware of validity of the answers.</p> <p>P.1/2 Analyse and find answers to problems and mix problems of cardinal numbers not exceeding 100, and 0,</p> <p>P.1/1 Apply diverse methods for problem-solving.</p> <p>P.1/2 Appropriately apply mathematical knowledge, skills and processes for problem-solving in various situations.</p> <p>P.1/3 Suitably provide reasoning for decision-making and appropriately present the conclusions reached.</p> <p>P.1/5 Link various bodies of mathematical knowledge, and link mathematics with other disciplines</p>
<p>6. Length</p> <p>6.1 Word related to length</p> <p>6.2 Measuring length</p> <p>6.3 Comparing length(Botany)</p>	<p>M 2.1</p> <p>M 6.1</p>	<p>P.1/1 Tell length, weight, volume, and capacity by using non-standard units of measure.</p> <p>P.1/2 Appropriately apply mathematical knowledge, skills and processes for problem-solving in various situations.</p> <p>P.1/3 Suitably provide reasoning for decision-making and appropriately present the conclusions reached.</p>

Semester 2/2014

Unit	Standard	Indicators
<p>7. Mass</p> <p>7.1 Word related to mass</p> <p>7.2 Measuring mass</p> <p>7.3 Comparing mass (Local)</p>	<p>M 2.1</p> <p>M 6.1</p>	<p>P.1/1 Tell length, weight, volume, and capacity by using non-standard units of measure.</p> <p>P.1/2 Appropriately apply mathematical knowledge, skills and processes for problem-solving in various situations.</p> <p>P.1/3 Suitably provide reasoning for decision-making and appropriately present the conclusions reached.</p> <p>P.1/4 Accurately use mathematical language and symbols for communication of concepts and presentation</p>
<p>8. Volume</p> <p>8.1 Word related to volume</p> <p>8.2 Measuring volume</p> <p>8.3 Comparing volume</p>	<p>M 2.1</p> <p>M 6.1</p>	<p>P.1/1 Tell length, weight, volume, and capacity by using non-standard units of measure.</p> <p>P.1/2 Appropriately apply mathematical knowledge, skills and processes for problem-solving in various situations.</p> <p>P.1/3 Suitably provide reasoning for decision-making and appropriately present the conclusions reached.</p> <p>P.1/4 Accurately use mathematical language and symbols for communication of concepts and presentation</p>
<p>9. Numbers up to 100</p> <p>9.1 Reading and writing numbers</p> <p>9.2 Place value</p> <p>9.3 Ordering &amp; Comparing numbers</p> <p>9.4 Counting in steps</p> <p>9.5 Naming positions</p>	<p>M 1.1</p> <p>M 6.1</p>	<p>P.1/1 Write and read Hindu-Arabic and Thai numerals showing quantity of objects or cardinal numbers not exceeding 100, and 0.</p> <p>P.1/2 Compare and arrange sequence of cardinal numbers not exceeding 100, and 0.</p> <p>P.1/4 Accurately use mathematical language and symbols for communication of concepts and presentation</p> <p>P.1/5 Link various bodies of mathematical knowledge, and link mathematics with other disciplines</p>

Unit	Standard	Indicators
	M 4.1	P.1/1 Tell the numbers and relations in patterns of numbers that increases by 1s and 2s, and decreases by 1s
<p>10.Addition and subtraction within 100</p> <p>10.1 Addition of 2 digit numbers without regrouping</p> <p>10.2 Subtraction of 2 digit Numbers without regrouping</p> <p>10.3 Word Problems</p>	<p>M 1.2</p>       <p>M 6.1</p>	<p>P.1/1 Add, subtract and mix addition and subtraction of cardinal numbers not exceeding 100, and 0, as well as be aware of validity of the answers.</p> <p>P.1/2 Analyse and find answers to problems and mix-problems of cardinal numbers not exceeding 100, and 0,</p> <p>P.1/1 Apply diverse methods for problem-solving.</p> <p>P.1/2 Appropriately apply mathematical knowledge, skills and processes for problem-solving in various situations.</p> <p>P.1/3 Suitably provide reasoning for decision-making and appropriately present the conclusions reached.</p> <p>P.1/4Accurately use mathematical language and symbols for communication of concepts and presentation</p> <p>P.1/5 Link various bodies of mathematical knowledge, and link mathematics with other disciplines</p>



Unit	Standard	Indicators
13. Two-Dimensional (2-D Shapes) 13.1 Names of 2-D shapes 13.2 Describing 2-D shapes 13.3 Patterns	M 3.1  M 4.1  M 6.1	P.1/1 Distinguish triangles, quadrilaterals, circles and ellipses.  P.1/2 Identify the forms and relations in patterns in which forms are related in one of the following respects: shape, size or colour.  P.1/3 Suitably provide reasoning for decision-making and appropriately present the conclusions reached.  P.1/4 Accurately use mathematical language and symbols for communication of concepts and presentation  P.1/6 Attain ability for creative thinking

#### Measurement and Evaluation Semester 1/2014

Total marks 100 marks (Assessment 60 marks: Midterm test/Final test 40 marks)

Measurement and Evaluation	Evaluation Method	Assessment tools	Marks	Standard/ Indicators
1. Pre-Midterm	1. Quiz 2. Course book 3. Participation	1. Mark/score 2. Checking Exercises 3. Observation sheet	25	M 1.1 P.1/1-2 M 1.2 P.1/1-2 M 6.1 P.1/1-4
2. Midterm	Examination	Test paper	20	M 1.1 P.1/1-2 M 1.2 P.1/1-2 M 6.1 P.1/1-4
3. Post-Midterm	1. Quiz 2. Course book 3. Participation	1. Mark/score 2. Checking Exercises 3. Observation sheet	25	M 1.1 P.1/1-2 M 1.2 P.1/1-2 M 2.1 P.1/1 M 6.1 P.1/1-5
4. Final	Examination	Test paper	20	M 1.1 P.1/1-2 M 1.2 P.1/1-2 M 2.1 P.1/1 M 6.1 P.1/1-5

5. Desirable Characteristics	1. Observation	1. Observation	10	<ol style="list-style-type: none"> <li>1. Love of nation, religion and king</li> <li>2. Honesty and integrity</li> <li>3. Self-discipline</li> <li>4. Avidity for learning</li> <li>5. Observance of principles of sufficiency economy philosophy in one's way of life</li> <li>6. Dedication and commitment to work</li> <li>7. Cherishing Thai-ness</li> <li>8. Public-mindedness</li> <li>9. positive attitude towards Mathematics</li> <li>10. Awareness of drugs and vices</li> </ol>
6. Competencies	1. Observation	<ol style="list-style-type: none"> <li>1. Observation</li> <li>2. Asking and answering question</li> </ol>		<ol style="list-style-type: none"> <li>1. Communication capacity</li> <li>2. Thinking capacity</li> <li>3. Problem solving capacity</li> <li>4. Capacity for applying life skills</li> <li>5. Capacity for technological application</li> </ol>
7. Reading, Analytical thinking, writing	Solving word problems	Worksheet / Exercise		



**Measurement and Evaluation Semester 2/2014**

Total marks 100 marks (Assessment 60 marks: Midterm test/Final test 40 marks)

<b>Measurement and Evaluation</b>	<b>Evaluation Method</b>	<b>Assessment tools</b>	<b>Marks</b>	<b>Standard/ Indicators</b>
1. Pre-Midterm	1. Quiz 2. Course book 3. Participation	1. Mark/score 2. Checking Exercises 3. Observation sheet	25	M 1.1 P.1/1-2 M 2.1 P.1/1 M 4.1 P.1/1 M 6.1 P.1/2-5
2. Midterm	Examination	Test paper	20	M 1.1 P.1/1-2 M 2.1 P.1/1 M 4.1 P.1/1 M 6.1 P.1/2-5
3. Post-Midterm	1. Quiz 2. Course book 3. Participation	1. Mark/score 2. Checking Exercises 3. Observation sheet	25	M 1.2 P.1/1-2 M 2.1 P.1/1 M 3.1 P.1/1 M 6.1 P.1/1-6
4. Final	Examination	Test paper	20	M 1.2 P.1/1-2 M 2.1 P.1/1 M 3.1 P.1/1 M 6.1 P.1/1-6

Measurement and Evaluation	Evaluation Method	Assessment tools	Marks	Standard/ Indicators
5. Desirable Characteristics	1. Observation	1. Observation	10	1. Love of nation, religion and king 2. Honesty and integrity 3. Self-discipline 4. Avidity for learning 5. Observance of principles of sufficiency economy philosophy in one's way of life 6. Dedication and commitment to work 7. Cherishing Thai-ness 8. Public-mindedness 9. positive attitude towards Mathematics 10. Awareness of drugs and vices
6. Competencies	1. Observation	1. Observation 2. Asking and answering question	-	1. Communication capacity 2. Thinking capacity 3. Problem solving capacity 4. Capacity for applying life skills 5. Capacity for technological application

7. Reading, Analytical thinking, writing	Solving word problems	Worksheet / Exercise	-	
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**คุณลักษณะอันพึงประสงค์ 10 ข้อ**

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| 1. รักชาติ ศาสน์ กษัตริย์  | 2. ซื่อสัตย์สุจริต              |
| 3. มีวินัย                 | 4. ใฝ่เรียนรู้                  |
| 5. อยู่อย่างพอเพียง        | 6. มุ่งมั่นในการทำงาน           |
| 7. รักความเป็นไทย          | 8. มีจิตสาธารณะ                 |
| 9. ปลอดภัยเสพติดและอบายมุข | 10. ความเป็นผู้นำและกล้าแสดงออก |

**สมรรถนะ 5 ข้อ**

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| 1. ความสามารถในการสื่อสาร      | 2. ความสามารถในการคิด           |
| 3. ความสามารถในการแก้ปัญหา     | 4. ความสามารถในการใช้ทักษะชีวิต |
| 5. ความสามารถในการใช้เทคโนโลยี |                                 |