



Unit	Standard	Indicators
	M 6.1	<p>P.2/1 Apply diverse methods for problem-solving.</p> <p>P.2/2 Appropriately apply mathematical knowledge, skills and processes for problem-solving in various situations.</p> <p>P.2/3 Suitably provide reasoning for decision-making and appropriately present the conclusions reached.</p> <p>P.2/4 Accurately use mathematical language and symbols for communication of concepts and presentation</p> <p>P.2/5 Link various bodies of mathematical knowledge, and link mathematics with other disciplines</p> <p>P.2/6 Attain ability for creative thinking</p>
<p><b>4. Length</b></p> <p>4.1 Measuring length in meters and centimeters and measuring distance</p> <p>4.2 Comparing lengths (Botany)</p> <p>4.3 Word problems</p>	<p>M 2.1</p> <p>M 2.2</p> <p>M 6.1</p>	<p>P.2/1 Tell length in metres and centimetres, and compare length by using the same unit.</p> <p>P.2/1 Solve problems involving measurement of length, weight, volume and money.</p> <p>P.2/1 Apply diverse methods for problem-solving.</p> <p>P.2/2 Appropriately apply mathematical knowledge, skills and processes for problem-solving in various situations.</p> <p>P.2/3 Suitably provide reasoning for decision-making and appropriately present the conclusions reached.</p>
<p><b>5. Mass</b></p> <p>5.1 Measuring mass in kilograms and heed or hectograms (Local)</p> <p>5.2 Comparing masses</p> <p>5.3 Word problems</p>	<p>M 1.2</p> <p>M 2.1</p> <p>M 2.2</p> <p>M 6.1</p>	<p>P.2/1 Add, subtract and mix addition and subtraction of cardinal numbers not exceeding 1,000, and 0, as well as be aware of validity of the answers.</p> <p>P.2/2 Analyse and find answers to problems and mix-problems of cardinal numbers not exceeding 1,000, and 0, as well as be aware of validity of the answers.</p> <p>P.2/2 Tell weight in kilograms and grams, and compare weight by using the same unit.</p> <p>P.2/1 Solve problems involving measurement of length, weight, volume and money.</p> <p>P.2/1 Apply diverse methods for problem-solving.</p> <p>P.2/5 Link various bodies of mathematical knowledge, and link mathematics with other disciplines</p>

	M 1.2	<p>P.2/1 Add, subtract and mix addition and subtraction of cardinal numbers not exceeding 1,000, and 0, as well as be aware of validity of the answers.</p> <p>P.2/2 Analyse and find answers to problems and mix-problems of cardinal numbers not exceeding 1,000, and 0, as well as be aware of validity of the answers.</p>
<p><b>6. Multiplication</b></p> <p>6.1 Meaning of multiplication</p> <p>6.2 Multiplication of 1-digit numbers</p> <p>6.3 Multiplication of 1-digit numbers by 2-digit numbers</p> <p>6.4 Word problems</p>	M 6.1	<p>P.2/1 Apply diverse methods for problem-solving.</p> <p>P.2/2 Appropriately apply mathematical knowledge, skills and processes for problem-solving in various situations.</p> <p>P.2/4 Accurately use mathematical language and symbols for communication of concepts and presentation</p> <p>P.2/5 Link various bodies of mathematical knowledge, and link mathematics with other disciplines</p>

**Semester 2/2014**

Unit	Standard	Indicators
<p><b>7. Division</b></p> <p>7.1 Meaning of division</p> <p>7.2 Division of 1-digit divisors</p> <p>7.3 Word problems</p>	<p>M 1.2</p> <p>M 6.1</p>	<p>P.2/1 Add, subtract and mix addition and subtraction of cardinal numbers not exceeding 1,000, and 0, as well as be aware of validity of the answers.</p> <p>P.2/2 Analyse and find answers to problems and mix-problems of cardinal numbers not exceeding 1,000, and 0, as well as be aware of validity of the answers.</p> <p>P.2/1 Apply diverse methods for problem-solving.</p> <p>P.2/4 Accurately use mathematical language and symbols for communication of concepts and presentation</p> <p>P.2/5 Link various bodies of mathematical knowledge, and link mathematics with other disciplines</p>

Unit	Standard	Indicators
<p><b>8. Volume</b></p> <p>8.1 Measuring volume and capacity in liters</p> <p>8.2 Comparing volume and capacity</p> <p>8.3 Word problems</p>	<p>M 2.1</p> <p>M 2.2</p> <p>M 6.1</p>	<p>P.2/3 Tell volume and capacity in litres, and compare volume and capacity.</p> <p>P.2/1 Solve problems involving measurement of length, weight, volume and money.</p> <p>P.2/2 Appropriately apply mathematical knowledge, skills and processes for problem-solving in various situations.</p> <p>P.2/3 Suitably provide reasoning for decision-making and appropriately present the conclusions reached.</p> <p>P.2/5 Link various bodies of mathematical knowledge, and link mathematics with other disciplines</p>
<p><b>9. Time</b></p> <p>9.1 Reading and writing the time</p> <p>9.2 Reading and writing the time in hours and minutes</p> <p>9.3 Months of the year</p> <p>9.4 Calendar</p>	<p>M 2.1</p> <p>M 6.1</p>	<p>P.2/5 Tell the time on a clock dial (period of 5 minutes).</p> <p>P.2/6 Tell the days, months and year from a calendar.</p> <p>P.2/1 Apply diverse methods for problem-solving.</p> <p>P.2/2 Appropriately apply mathematical knowledge, skills and processes for problem-solving in various situations.</p> <p>P.2/5 Link various bodies of mathematical knowledge, and link mathematics with other disciplines</p>
<p><b>10. Money</b></p> <p>10.1 Coins and bills (Asean)</p> <p>10.2 Comparing values of coins and bills</p> <p>10.3 Amounts of money</p> <p>10.4 Word problems</p>	<p>M 2.1</p> <p>M 2.2</p> <p>M 6.1</p>	<p>P.2/4 Tell total amount of money from coins and bank notes.</p> <p>P.2/1 Solve problems involving measurement of length, weight, volume and money.</p> <p>P.2/1 Apply diverse methods for problem-solving.</p> <p>P.2/2 Appropriately apply mathematical knowledge, skills and processes for problem-solving in various situations.</p> <p>P.2/4 Accurately use mathematical language and symbols for communication of concepts and presentation</p> <p>P.2/5 Link various bodies of mathematical knowledge, and link mathematics with other disciplines</p>



## Measurement and Evaluations Semester 1/2014

Total 100 Marks (Assessment 60 Marks: Midterm Test / Final Test 60 Marks)

Measurement and Evaluations	Task/ Assignments	Assessment and Evaluation (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.2/1-2 M 1.2 P.2/1-2 M4.1 P.2/1 M 6.1 P.2/1-6
2. Midterm	Examination	Test paper	20	M 1.1 P.2/1-2 M 1.2 P.2/1-2 M4.1 P.2/1 M 6.1 P.2/1-6
3. Post-Midterm	1. Quiz 2. Course book 3. Participation	1. Mark/score 2. Checking Exercises 3. Observation sheet	25	M 1.2 P.2/1-2 M 2.1 P.2/1-2 M 2.2 P.2/1 M 6.1 P.2/1-5
4. Final	Examination	Test paper	20	M 1.2 P.2/1-2 M 2.1 P.2/1-2 M 2.2 P.2/1 M 6.1 P.2/1-5
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 2. Asking	1.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		

**Measurement and Evaluations 2/2014**

**Total 100 Marks (Assessment 60 Marks: Midterm Test / Final Test 60 Marks)**

Measurement and Evaluations	Evaluation Method	Assessment Tool	Marks	Standard/ Indicators
1. Pre-Midterm	1. Quiz 2. Course book 3. Participation	1. Mark/score 2. Checking Exercises 3. Observation sheet	25	M 1.2 P.2/1-2 M 2.1 P.2/3,5,6 M 2.2 P.2/1 M 6.1 P.2/1-5
2. Midterm	Examination	Test paper	20	M 1.2 P.2/1-2 M 2.1 P.2/3,5,6 M 2.2 P.2/1 M 6.1 P.2/1-5
3. Post-Midterm	1. Quiz 2. Course book 3. Participation	1. Mark/score 2. Checking Exercises 3. Observation sheet	25	M 1.2 P.2/1-2 M 2.1 P.2/4 M 2.2 P.2/1 M 3.1 P.2/1-3 M 3.2 P.2/1

				M 4.1 P.2/2 M 6.1 P.2/1-6
4. Final	Examination	Test paper	20	M 1.2 P.2/1-2 M 2.1 P.2/4 M 2.2 P.2/1 M 3.1 P.2/1-3 M 3.2 P.2/1 M 4.1 P.2/2 M 6.1 P.2/1-6
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	-	Competencies No.1-5
7. Reading, Analytical thinking, writing	Solving word problems	Worksheet / Exercise	-	-

### คุณลักษณะอันพึงประสงค์ 10 ข้อ

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

### สมรรถนะ 5 ข้อ

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