

Course Description

Subject: Mathematics 3	
Class: Primary 3A-B	5

Code: MA 131015 periods /WSemester 1-2 / 2014Instructor: Mr

5 periods /Week 5.0 Credits Instructor: Mr.Ariel, Ms. Chanpen

Unit	Standard	Indicators
1. Numbers up to 100,000	M.1.1	P.3/1 Write and read Hindu-Arabic and Thai numerals
1.1 Reading and writing up to		and written forms showing quantity of objects or cardinal
100,000 (ASEAN)		numbers not exceeding 100,000 and 0.
1.2 Comparing and ordering	M.1.1	P.3/2 Compare and arrange sequence of cardinal numbers
number		not exceeding 100,000 and 0.
1.3 Number patterns		
	M.4.1	P.3/1 Tell the numbers and relation pattern of numbers
		that increases by 3s, 4s, 25s, and 50s, and decrease by 3s,
		4s, 5s, 25s, and 50s and in repeated patterns.
	M.6.1	P.3/1 Apply diverse methods for problem-solving
2. Addition and subtraction within	M.1.2	P.3/1 Add, subtract, multiply, divide and mix addition and
100,000		subtraction of cardinal numbers not exceeding 100,000
2.1 Addition		and 0 as well as be aware of validity of the answers.
2.2 Subtraction	M.1.2	P.3/2 Analyse and show method of finding answers to
2.3 Using addition and subtraction		problems and mix-problems of cardinal numbers not
to solve word problems (local)		exceeding 100,000 and 0 as well as be aware of validity of
		the answers.
		P.3/2 Appropriately apply mathematical knowledge, skills
	M.6.1	and process for problem-solving in various situation.

Unit	Standard	Indicators	
3. Length	M.2.1	P.3/1 Tell length in metres, centimeters and millimeters by	
3.1 Measuring & Comparing		using appropriate measuring tools, and compare length.	
length (Botany)	M.2.2	P.3/1 Solve problem involving measurement of length,	
3.2 Solving word problem		weight, volume, money and time.	
involving length	M.6.1	P.3/3 Suitably provide reasoning for decision-making and	
		appropriately present the conclusions reached.	
4. Mass	M.2.1	P.3/2 Tell weight in kilograms and grams by using	
4.1 Measuring &Comparing Mass		appropriate weighting machine, and compare weights.	
4.2 Solving word problem	M.2.2	P.3/1. Solve problem involving measurement of length,	
involving mass		weight, volume, money and time.	
	M.6.1	P.3/4 Accurately use mathematical language and symbols	
		for communication, communication of concepts and	
		presentation.	
5.Multiplication	M.1.2	P.3/1 Add, subtract, multiply, divide and mix addition and	
5.1 Multiplication of a 1-digit		subtraction of cardinal numbers not exceeding 100,000	
number by 2-4 digit number		and 0 as well as be aware of validity of the answers	
5.2 Multiplication of a 2-digit		P.3/2 Analyse and show method of finding answers to	
number by 2 digit number	M.1.2	problems and mix-problems of cardinal numbers not	
5.3 Using multiplication to solve		exceeding 100,000 and 0 as well as be aware of validity of	
word problem		the answers.	
		P.3/5 Link various bodies of mathematical knowledge,	
		and link mathematics with other disciplines.	
	M.6.1		

Unit	Standard	Indicators
 6. Division 6.1 Dividing a 2-digit dividend by a 1-digit divisor 6.2 Dividing a 2-4digit dividend by a 1-digit divisor using long 	M.1.2 M.1.2	 P.3/1 Add, subtract, multiply, divide and mix addition and subtraction of cardinal numbers not exceeding 100,000 and 0 as well as be aware of validity of the answers P.3/2 Analyse and show method of finding answers to problems and mix-problems of cardinal numbers not
division 6.3 Using division to solve word problem	M.6.1	exceeding 100,000 and 0 as well as be aware of validity of the answers. P.3/6 Attain ability for creative thinking.
 7. Combined Operation 7.1 Results of combined operation 7.2 Using combined operation to solve word problems 	M.1.2 M.1.2	P.3/1 Add, subtract, multiply, divide and mix addition and subtraction of cardinal numbers not exceeding 100,000 and 0 as well as be aware of validity of the answers P.3/2 Analyse and show method of finding answers to problems and mix-problems of cardinal numbers not exceeding 100,000 and 0 as well as be aware of validity of the answers.

Unit	Standard	Indicators
8. Volume	M.2.1	P.3/3 Tell volume and capacity in litres and millitres by
8.1 Measuring & Comparing		using appropriate measuring tools, and compare weight and
Volume		capacity by using the same units.
8.2 Solving word problem	M.2.2	P.3/1 Solve problems involving measurement of length,
involving volume		weight, volume, money and time.
	M.6.1	P.3/1 Apply diverse methods for problem-solving
9. Time	M.2.1	P.3/4 Tell the time on a clock dial (period of 5 minutes);
9.1 Reading & Writing Time		read, write, and tell the time by using numerals.
9.2 Calendar &Diary	M.2.1	P.3/5 Tell the relationship between measuring units for
9.3 Solving word problem		length, height and time
involving time	M.2.2	P.3/1 Solve problems involving measurement of length,
		weight, volume, money and time.
	M.2.2	P.3/3 Read and keep record of activities or events,
		specifying the time.
10. Money	M.2.1	P.3/6 Read and write amount of money by using
10.1 Reading & Writing an		numerals.
amount of money using a dot	M.2.2	P.3/1 Solve problems involving measurement of length,
10.2 Solving word problem		weight, volume, money and time.
involving money	M.2.2	P.3/2 Read and keep record of income and expenditure.
10.3 Statement of incomes	M.6.1	P.3/2 Appropriately apply mathematical knowledge, skills
and expenses		and process for problem-solving in various situation.

Unit	Standard	Indicators
11. Data, Pictograms and Bar	M.5.1	P.3/1 Collect and categorize data about oneself and the
Charts		surroundings in daily life.
11.1 Collecting &	M.5.1	P.3/2 Read data from simple pictograms and bar charts
organizing Data	M.6.1	P.3/3 Suitably provide reasoning for decision-making and
11.2 Pictograms and Bar		appropriately present the conclusions reached.
Charts		
12.Geometric Shapes	M.3.1	P.3/1 Identify two-dimensional geometric figures that are
12.1 2-D and 3-D		components of an object in the form of three-dimensional
geometric shapes		geometric figure.
12.2 Polygon &Non polygon	M.3.1	P.3/2 Identify two-dimensional geometric figures with
12.3 Lines of symmetry		axis of symmetry from a given figure
12.4 Shape Pattern	M.3.2	P.3/1 Draw two-dimensional geometric figures given in
		various models.
	M.3.2	P.3/2 Identify various geometric figures in the
		surroundings.
	M.4.1	P.3/2 Identify the form and relations in pattern in which
		form are related in two of the following respects: shape, size
		or color.
	M.6.1	P.3/4 Accurately use mathematical language and symbols
		for communication, communication of concepts and
		presentation.
13. Points, lines, Line	M.3.1	P.3/3 Write linear points, straight lines, rays, part of
segments, Rays and Angles		straight line, angles and symbols.
13.1 Points, lines, Rays	M.3.2	P.3/1 Draw two-dimensional geometric figures given in
13.2 Line segments,		various models.
Intersecting Point	M. 3.2	P.3/2 Identify various geometric figures in the
13.3 Angles		surroundings
	M.6.1	P.3/5 Link various bodies of mathematical knowledge,
		and link mathematics with other disciplines
	M.6.1	P.3/6 Attain ability for creative thinking.

Measurement and Evaluation

Measurement and Evaluation	Assessments/Evaluat ion	Assessments tool	Marks	Standard : Indicator
1Pre-Midterm	Assignment, Test	RUBIC, Questionnaires	25	Semester1
				M.1.1 P.3/1,P.3/2
				M.4.1 P.3/1
				M.1.2 P.3/1,P.3/2
				Semester2
				M.2.1 P.3/3,P.3/4
				M. 2.1 P.3/5
				M.2.2 P.3/1, P.3/2
2. Midterm	Examination	Test paper	20	Semester 1
				M.1.2 P.3/1,P.3/2
				M.2.1 P.3/1,P.3/2
				M.2.2 P.3/1
				Semester2
				M.2.1 P.3/5
				M.2.2 P.3/1, P.3/2
3. Pre-Final	Assignment, Test	RUBIC, Questionnaires	25	Semester 1
				M.1.2 P.3/1,P.3/2
				Semester2
				M.3.1 P.3/1, P.3/2
				M.3.2 P.3/2
				M.5.1 P.3/1

Total 100 Marks (Classroom assessment 60: Mid-term / Final 40)

Measurement and Evaluation	Assessments/Evaluat ion	Assessments tool	Marks	Standard : Indicator
4. Final	Examination	Test paper	20	Semester 1 M.1.2 P.3/1,P.3/2 Semester2 M4.1 P.3/2 M.5.1 P.3/2
5. Desirable Characteristics	Behavior	Assessments tool for observation	10	Desirable
6. Competencies	Observation	Assessments tool for Observation	-	 Communication capacity Thinking capacity Problem-solving capacity, Capacity for apply life skills Capacity for technological application
7. reading/thinking/ writing	Assignment, Observation	Assessments tool for assignment and observation	-	

คุณลักษณะอันพึงประสงค์ 10 ข้อ

- รักชาติศาสน์ กษัตริย์
- 3. มีวินัย
- 5. อยู่อย่างพอเพียง
- 7. รักความเป็นไทย
- 9. ปลอดสิ่งเสพติดและอบายมุข

สมรรถนะ 5 ข้อ

- 1. ความสามารถในการสื่อสาร
- 3. ความสามรถในการแก้ปัญหา
- 5. ความสามรถในการใช้เทคโนโลยี

- ซื่อสัตย์สุจริต
- 4. ใฝ่เรียนรู้
- 6. มุ่งมั่นในการทำงาน
- 8. มีจิตสาธารณะ
- 10. มีความเป็นผู้นำและกล้าแสดงออก
- 2. ความสามารถในการคิด
- 4. ความสามรถในการใช้ทักษะชีวิต