

Course Outline

Department Bilingual Name of Subject :Mathematics Code : A.11201

Teacher's name : Ms. Nantawan Monprasit

☒ Primary 1

☐ Secondary /

1st - 2nd Semester / 2014

Subject :

☐ Main Subject

☒ Optional Subject

☐ Development Activities for Students

☐ Others

1) Course Description

Learn to read and write numbers and word up to 50 , compare numbers up to 50 , add two numbers ,solve word problems on addition, subtract two numbers ,solve word problems on subtraction ,measure and compare the lengths, the masses and the capacity of to more objects, read and write numbers and word up to 100 , compare numbers up to 100 ,

multiply numbers whose product is not greater than 40 , solve word problems on multiplication, divide a quantity not greater than 20 into equal sets, solve word problems on division, write the time, days and months, tell the amount of money , solve word problems of money, identify and name the following shapes in 2D, 3D objects and make picture graph of given data.

By using Mathematical skills , Solving problems , Analysis , Clarification , Mathematical communications , Presentation , Mathematical link and Creative thinking

To be disciplined and devoting to work.

2) Grade-Level Indicators (The Basic Education Core Curriculum)

1. Write and compare numbers up to 50

2. Add two numbers and solve word problem
3. Subtract two numbers and solve word problem
4. Measure and compare the lengths of two or more objects
5. Measure and compare the masses of two or more objects
6. Measure and compare the capacity of two or more objects
7. Write and compare numbers up to 100
8. Multiply numbers whose product is not greater than 40 and solve word problems
9. Divide a quantity not greater than 20 into equal sets and solve word problems.
10. Write the time
11. Write days and months
12. Tell the amount of money and solve word problems
13. Identify and name the following shapes in 2D, 3D objects
14. Make picture graph of given data

3. Learning Objectives (1st Semester)

Indicators of Semester	In accordance with government curriculum
1. Write and compare numbers up to 50	ค.1.1
2. Add two numbers and solve word problem	ค.1.2
3. Subtract two numbers and solve word problem	ค.1.2
4. Measure and compare the lengths of two or more objects	ค.2.1
5. Measure and compare the masses of two or more objects	ค.2.1
6. Measure and compare the capacity of two or more objects	ค.2.1
12. Tell the amount of money and solve word problems	ค.2.1

1. Analyze the course description to be the contents for teaching. (1st Semester)

Contents (Strand)/ Standards	Indicators	Units of learning / Amounts of Periods	Teaching Materials	How to Evaluate		Maximum marks
				Evaluations	Tools	
ม 1 / ค. 1.1	1. Write and compare numbers up to 50	Unit : 1 Numbers up to 50 (10 Periods) 1.1 Count the numbers up to 50 1.2 Read and write numbers in numeral and in words 1.3 Recognize the place values of numbers. (tens, ones) 1.4 Compare numbers 1.5 Arrange the numbers in ascending and descending order. 1.6 Identify ordinal numbers. 1.7 Distinguish odd and even numbers.	1. video 2. textbook 3. exercise 4. song 5. test 6. pictures	1. Do exercise 2. Answering 3. Do the test	1. worksheet 2. practical test 3. questions	30
ม 1 / ค. 1.2	2. Add two numbers and solve word problem	Unit: 2 Addition (5 Periods) 2.1 Write the symbol, mathematical statements and number word sentences on addition	1. video 2. textbook 3. exercise 4. song 5. pictures 6. test	1. Do exercise 2. Answering 3. Do the test	examination	10

		<p>2.2 Add two numbers without regrouping</p> <p>2.3 Add two numbers with regrouping</p> <p>2.4 Solve word problems on addition</p>				
ม 1 / ค. 1.2	3. Subtract two numbers and solve word problem	<p>Unit: 3 Subtraction (5 Periods)</p> <p>1 Write the symbol, mathematical statements and number word sentences on subtraction</p> <p>3.2 Subtract two numbers without regrouping</p> <p>3.3 Subtract two numbers with regrouping</p> <p>3.4 Solve word problems on subtraction</p>	<p>1. video</p> <p>2. textbook</p> <p>3. exercise</p> <p>4. song</p> <p>5. pictures</p> <p>6. test</p>	<p>1. Do exercise</p> <p>2. Answering</p> <p>3. Do the test</p>	examination	10
ม 2 / ค. 2.1	4. Measure and compare	<p>Unit 4: Length (5 Periods)</p>	<p>1. video</p> <p>2. textbook</p>	<p>1. Do exercise</p> <p>2. Answering</p>	<p>1. worksheet</p> <p>2. practical</p>	15

	the lengths of two or more objects	4.1 Compare the lengths of two or more objects. 4.2 Measure the lengths of objects in non - standard unit	3. exercise 4. song 5. pictures 6. test	3. Do the test	test 3. questions	
ม 2 / ค. 2.1	5. Measure and compare the masses of two or more objects	Unit 5: Mass (5 Periods) 5.1 Compare the masses of two or more objects. 5.2 Measure the masses of objects in non - standard unit	1. video 2. textbook 3. exercise 4. song 5. pictures 6. test	1. Do exercise 2. Answering 3. Do the test	1. worksheet 2. practical test 3. questions	15
ม 2 / ค. 2.1	6.Measure and compare the capacity of two or more objects	Unit 6: Capacity (5 Periods) 6.1 Compare the capacity of two or more objects. 6.2 Measure the capacity of objects in non - standard unit	1. video 2. textbook 3. exercise 4. song 5. pictures 6. test	1. Do exercise 2. Answering 3. Do the test	examination	10
ม 2 / ค. 2.1	12.Tell the amount of money and solve word	Unit 11: Money (5 Periods) 11.1 Recognize different coins and note.	1. video 2. textbook 3. exercise 4. song 5. pictures	1. Do exercise 2. Answering 3. Do the test	examination	10

	problems	11.2 Exchange money. 11.3 Tell the amount of money 11.4 Add and subtraction money. 11.5 Solve 1 step word problems.	6. test			
--	----------	--	---------	--	--	--

2. Contents of subjects

1st Semester

Time Duration	Subject Contents
Beginning of the session – Mid-term	<ul style="list-style-type: none"> - Count the numbers up to 50 - Read and write numbers in numeral and in words - Recognize the place values of numbers. (tens, ones) - Compare numbers - Arrange the numbers in ascending and descending order. - Identify ordinal numbers. - Distinguish odd and even numbers. - Write the symbol, mathematical statements and number word sentences on addition - Add two numbers without regrouping - Add two numbers with regrouping - Solve word problems on addition

	<ul style="list-style-type: none"> - Write the symbol, mathematical statements and number word sentences on subtraction - Subtract two numbers without regrouping - Subtract two numbers with regrouping - Solve word problems on subtraction
Post – Midterm – Final	<ul style="list-style-type: none"> - Compare the lengths of two or more objects. - Measure the lengths of objects in non - standard unit - Compare the masses of two or more objects. - Measure the masses of objects in non - standard unit - Compare the capacity of two or more objects. - Measure the capacity of objects in non - standard unit - Recognize different coins and note. - Exchange money. - Tell the amount of money - Add and subtraction money. - Solve 1 step word problems.

3. Evaluation

Average marks for evaluation

Authentic Assessment: Written / Practical Exam = 60 : 40

(Depend on each Subject)

Evaluation of Learning Objectives

Semester	Learning Objectives (Items)
1	1, 2, 3, 4, 5, 6, 12

4. Details of Evaluation

1st Semester/2014

Pre-test marks: 30 Marks (Authentic Assessment)

Learning Objectives (Items)	Criteria Followed for Assessment	Maximum marks
1	<ul style="list-style-type: none">- Practical exercise- Test about numbers 1 - 50	30

Mid-term marks: 20 Marks (Written/Practical Exam)

Learning Objectives (Items)	Criteria Followed for Assessment	Maximum marks
2	<ul style="list-style-type: none">- Test about addition	10
3	<ul style="list-style-type: none">- Test about subtraction	10

Post-Test marks 30 Marks (Authentic Assessment)

Learning Objectives (Items)	Criteria Followed for Assessment	Maximum marks
4	<ul style="list-style-type: none"> - Practical exercise - Test about the lengths of two or more objects 	15
5	<ul style="list-style-type: none"> - Practical exercise - Test about the masses of two or more objects 	15

Portfolio : - Marks

Learning Objectives (Items)	Criteria Followed for Assessment	Maximum marks
-	-	-

Final marks : 20 Marks (Written/Practical Exam)

Learning Objectives (Items)	Criteria Followed for Assessment	Maximum marks
6	<ul style="list-style-type: none"> - Test about the capacity 	10
12	<ul style="list-style-type: none"> - Test about the amount of money 	10

2nd Semester/2014

Learning Objectives (2nd Semester)

Indicators of Semester	In accordance with government curriculum
7. Write and compare numbers up to 100	ค.1.1, ค.1.2
8. Multiply numbers whose product is not greater than 40 and solve word problems	ค.1.2
9. Divide a quantity not greater than 20 into equal sets and solve word problems.	ค.1.2
10. Write the time	ค.2.1
11. Write days and months	ค.2.1
13. Identify and name the following shapes in 2D, 3D objects	ค.3.1
14. Make picture graph of given data	ค.5.1

Analyze the course description to be the contents for teaching. (1st Semester)

Contents (Strand)/ Standards	Indicators	Units of learning / Amounts of Periods	Teaching Materials	How to Evaluate		Maximum marks
				Evaluations	Tools	
ม 1 / ค.1.1, ค. 1.2	7 Write and compare numbers up to 100	Unit 7 Numbers up to 100 (10 Periods) <ul style="list-style-type: none"> - Count the numbers up to 100 in numerals and in words - Recognize the place values of numbers (hundreds, 	1. video 2. textbook 3. exercise 4. song 5. test 6. pictures	1. Do exercise 2. Answering 3. Do the test	1. worksheet 2. practical test 3. questions	30

		<p>tens, ones)</p> <ul style="list-style-type: none"> - Compare numbers up to 100 - Arrange the numbers in ascending and descending Order - Complete number patterns. 				
ม 1 / ค.1.2	8 Multiply numbers whose product is not greater than 40 and solve word problems	Unit 8 Multiplication(5 Periods) <ul style="list-style-type: none"> - The meaning of multiplication as repeated addition. - Write multiplication sentence. - Multiply numbers whose product is not greater than 40. - Solve 1 step word problems. 	1. video 2. textbook 3. exercise 4. song 5. test 6. pictures	1. Do exercise 2. Answering 3. Do the test	examination	10
ม 3 / ค. 3.1	13. Identify and name the following shapes in 2D, 3D objects	Unit 12 Shape and Pattern (5 Periods) <ul style="list-style-type: none"> - Identify and name the following shapes, rectangle, triangle, square and circle. - Identify and name the following shapes in 3-D 	1. video 2. textbook 3. exercise 4. song 5. test 6. pictures	1. Do exercise 2. Answering 3. Do the test	examination	10

		<p>objects; cube , pyramid , rectangular prism, cone and cylinder</p>				
ม 2 / ค. 2.1	<p>10 Write the time</p> <p>11 Write days and months</p>	<p>Unit 10 Time (10 Periods)</p> <ul style="list-style-type: none"> - Period of times (morning, noon, afternoon, evening, night, day) -Tell the time in terms of o'clock and half past. - Days of the week. - Months of the year. 	<p>1. video</p> <p>2. textbook</p> <p>3. exercise</p> <p>4. song</p> <p>5. test</p> <p>6. pictures</p>	<p>1. Do exercise</p> <p>2. Answering</p> <p>3. Do the test</p>	<p>1. worksheet</p> <p>2. practical test</p> <p>3. questions</p>	30
ม 1 / ค. 1.2	<p>9 Divide a quantity not greater than 20 into equal sets and solve word problems.</p>	<p>Unit 9 Division (5 Periods)</p> <ul style="list-style-type: none"> - Group object equally - Share object equally - Divide a quantity not greater than 20 into equal sets. - Solve word problems on division 	<p>1. video</p> <p>2. textbook</p> <p>3. exercise</p> <p>4. song</p> <p>5. test</p> <p>6. pictures</p>	<p>1. Do exercise</p> <p>2. Answering</p> <p>3. Do the test</p>	examination	10
ม 5 / ค. 5.1	<p>14 Make</p>	Unit 14 Picture Graph	<p>1. video</p> <p>2. textbook</p>	<p>1. Do exercise</p> <p>2. Answering</p>	examination	10

	picture graph of given data	(5 Periods) - Make picture graph of given data Read and interpret picture graph	3. exercise 4. song 5. test 6. pictures	3. Do the test		
--	--------------------------------	--	--	----------------	--	--

Contents of subjects

2nd Semester

Time Duration	Subject Contents
Beginning of the session – Mid-term	<ul style="list-style-type: none"> - Count the numbers up to 100 in numerals and in words - Recognize the place values of numbers (hundreds, tens, ones) - Compare numbers up to 100 - Arrange the numbers in ascending and descending order - Complete number patterns - The meaning of multiplication as repeated addition. - Write multiplication sentence. - Multiply numbers whose product is not greater than 40. - Solve 1 step word problems - Identify and name the following shapes, rectangle, triangle, square and circle. - Identify and name the following shapes in 3-D objects; cube, pyramid, rectangular prism, cone and cylinder
Post – Midterm – Final	<ul style="list-style-type: none"> - Period of times (morning, noon, afternoon, evening, night, day) - Tell the time in terms of o'clock and half past.

	<ul style="list-style-type: none"> - Days of the week. - Months of the year. - Group object equally - Share object equally - Divide a quantity not greater than 20 into equal sets. - Solve word problems on division - Make picture graph of given data - Read and interpret picture graph
--	---

Evaluation

Average marks for evaluation

Authentic Assessment: Written / Practical Exam = 60 : 40

(Depend on each Subject)

Evaluation of Learning Objectives

Semester	Learning Objectives (Items)
2	7, 8, 9, 10, 11, 13, 14

Details of Evaluation

Pre-test marks: 30 Marks (Authentic Assessment)

Learning Objectives (Items)	Criteria Followed for Assessment	Maximum marks
7	- Practical exercise	30

	- Test about the numbers 50 – 100	
--	-----------------------------------	--

Mid-term marks : 20 Marks (Written/Practical Exam)

Learning Objectives (Items)	Criteria Followed for Assessment	Maximum marks
8	- Test about multiplication	10
13	- Test about the shapes in 2D,3D objects	10

Post-Test marks 30 Marks (Authentic Assessment)

Learning Objectives (Items)	Criteria Followed for Assessment	Maximum marks
10	- Practical exercise - Test about the time	15
11	- Practical exercise - Test about days and months	15

Portfolio : - Marks

Learning Objectives (Items)	Criteria Followed for Assessment	Maximum marks
-	-	-

Final marks : 20 Marks (Written/Practical Exam)

Learning Objectives (Items)	Criteria Followed for Assessment	Maximum marks
9	- Test about division	10
14	- Test about picture graphs	10