

Course Description

Subject: Mathematics 3 Code: MA 22101 Time: 80 Periods Credit: 2.0

Class: Secondary 2A-B Semester 1 / 2014 Instructors: Ms. Marites Magsipoc & Ms. Thatsana Treekitja

Study Unit (Content)	Standard	Indicators	
1. Ratios and Percentages	M 6.1	Capacity for problem-solving, reasoning, and	
1.1 Ratios and equivalent ratios		communication; communication and presentation of	
1.2 Proportions		mathematical concepts; linking various bodies of mathematical	
1.3 Ratios of two quantities and more than		knowledge and linking mathematics with other disciplines; and	
two quantities.		attaining ability for creative thinking	
1.4 Percentages (Botany)		m. 2/1 Apply diverse methods for problem-solving.	
		m. 2/4 Accurately and succinctly use mathematical language	
		and symbols for communication, communication of concepts	
	M1 .1	and presentation.	
		Understanding diverse methods of presenting numbers and	
		their application in real life.	
		m.2/4. Apply knowledge of ratio, fraction and percentage to	
		solve problems.	
2. Measurement	M 6.1	Capacity for problem-solving, reasoning, and	
2.1 Historical note of measurement		communication; communication and presentation of	
2.2 Measurement of lengths		mathematical concepts; linking various bodies of mathematical	
2.3 Measurement of areas		knowledge and linking mathematics with other disciplines; and	
2.4 Measurement of volume, capacity and		attaining ability for creative thinking	
mass		m. 2/1 Apply diverse methods for problem-solving.	
2.5 Measurement of times		m. 2/4 Accurately and succinctly use mathematical language	
		and symbols for communication, communication of concepts	
		and presentation.	
		Understanding the basics of measurement; ability to measure	
	M 2.1	and Estimate the size of objects to be measured.	
		m.2/1 Compare measuring units for length and area of the	
		same and different systems and choose appropriate measuring	
		units.	

		m.2/2 Appropriately estimate time, distance, area, volume and explain the method use for estimation
3. Pie – charts	M 5.1	Understanding and ability to apply statistical methodology for
3.1 Reading of pie-charts		data analysis
3.2 Writing of pie-charts (Local)		m.2/1 Reading and present data by using pie-charts.
4. Transformation geometry	M 3.2	Ability for visualization, spatial reasoning and application of
4.1 Transformation		geometric models for problem-solving.
4.2 Reflections		m.2/3 Understanding and apply geometric transformation
4.3 Rotations		through transformation, reflection and rotation.
		m.2/4 Indentify images from transformation, reflection and
		rotation of models and explain the method of obtaining the
		images when such models and images.
5. Congruence	M 3.2	Ability for visualization, spatial reasoning and application of
5.1 Congruence of geometric figures		geometric models for problem-solving.
5.2 Congruence of triangles		m.2/1 Use properties of congruence of triangles for reasoning.
5.3 Two triangles are congruence with reason		
S-A-S		
5.4 Two triangles are congruence with reason		
A-S-A		
5.5 Two triangles are congruence with reason		
S-S-S		

Measurement and Evaluation

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

Measurement and Evaluation	Evaluation Methods	Assessment tool	Points	Expected outcomes
1. Pre - Midterm	1. Test	1. Worksheets	15	M 6.1 m.2/1 m2/4
	2. Project	2. Project Making	5	M1.1 m2/4
	3.Presentation	Criteria	5	M2.1 m.2/1 m.2/2
		3. Presentation		
		Making Criteria		
2. Midterm Test	Tests	Examination	20	M 6.1 m.2/1 m2/4

				M 1.1 m2/4
				M 2.1 m.2/1 m.2/2
3. Post - Midterm	1. Test	1. Worksheets	15	M5.1 m2/1
	2. Project	2. Project Making	5	M3.2 m2/3 ,m.2/4
	3.Presentation	Criteria	5	
		3. Presentation		
		Making Criteria		
4. Final Test	Tests	Examination	20	M5.1 m2/1
				M3.2 m.2/1 ,m2/3 ,m.2/4
				1.Love of nation, religion and king
				2. Honesty and integrity
				3. Self-discipline
				4. Avidity of learning
				5. Being Economy philosophy
				sufficiency
5. Desirable	1. Observe	1. Observation	10	6. Responsibility and commitment to
Characteristics				work
				7. Cherishing thai-ness
				8. Public-mindedness
				9. Awareness of drugs and vice
				10. Assertive leadership
6. Competencies	- Solving Word	- Worksheets	-	1. Understand the concept of the
	Problems			word problem read.
				2. Utilize mathematics in a practical
				way by finding
7. Analytical	- Solving Word	- Worksheets	-	1. Understand the concept of the
reading and writing	Problems			word problem read.
				2. Utilize mathematics in a practical
				way by finding solution to real world
				problems.