

COURSE SYLLABUS

**Course Title: Mathematics
(7th Grade, Elementary)**
The Asian International School

I. Materials

The following supplies are required for all math classes:

- Math graphing notebook
- Pencils and pens
- Ruler, protractor and compass
- Fx-570 Calculator

II. General Standards:

Mathematics as a discipline aims to develop creative thinking, analytical and logical reasoning, and collaboration in order to prepare the students to be equipped and ready to face the challenges of a complex and highly technical society. Hence, the lessons are presented in a sequential manner evolving from simple to complex concepts which involve higher cognition skills. Moreover, it develops better understanding of mathematical concepts and their applications through an interactive approach; thus, performance tasks reflect activities for mastery such as doing investigations or practical works to challenge the inquisitive and well-motivated learners. These activities should provide meaningful and life-long learning experiences that will prepare individuals to be problem solvers.

III. Course Description

Elementary mathematics focused more on computational skills of students. It deals more on pen and paper solution rather than using calculators. Concepts on properties of equation is a pre-requisite of this course as they are needed to calculate simple equations to more complex system of equations.

IV. Requirements

Students will need to have a careful preparation for each part of every section. Through in class discussion groups, homework exercise problems, and in class examination students will gain necessary knowledge.

This course will also include monthly individual assessment accounting for 50% of the overall course grade. The remaining 50% of student grades come from homework, participation, behavior, and attendance. Therefore, it is vital for students to attend class regularly and participate in the lesson.

It is also required that students practice their skills through pair work, group work as well as self study. Examinations will cover the material from the text.

V. Evaluation & Grading

Student progress made during the course taking will be assessed through achievement tests as well as other assessments designed, planned, and implemented by classroom teachers. The following grading scale will be operated separately in each semester.

1. Achievement Tests (80%)
 - Mid-term (30%)
 - Final Exam (50%)
2. Other Assessments (20%)
 - Homework: individual/group projects
 - In-class assessments: Quizzes, literary/writing tasks, etc.
 - Class Performance: Attendance and Participation

VI. GRADING SCALE

The following grading scale will be used:

Letter	Range	Percentages
A	90-100	90% (High Distinction)
B	80-89	80% (Distinction)
C	65-79	70% (Pass with merit)
D	50- 64	60% (Pass)
F	0- 49	Below 60% (Fail)

VII. Course Outline

SEMESTER	CHAPTER	Unit	CONTENT	TIME (Weeks)	NOTES
S e m e s t e r 1	1. Ratios and proportional relations	1	Proportional Relations	2	
		2	Unit Rate as the Constant of Proportionality	2	
		3	Ratio and Rates involving Fractions	3	
		4	Ratios of Scale Drawing	2	
	2. Expressions and Equations	1	Properties of Operations	1	
		2	Solve problems involving Equations and Inequalities	3	
		3	Solve Problems involving Geometry	2	
S e m e s t e r 2	3. Chapter 3: Perpendicular and Parallel lines	1	Introduction	1	
		2	Parallel Lines	2	
		3	Theorems and Proofs	2	

	4. Triangles	1	Properties of Triangles	2	
		2	Congruent Triangles	1	
		3	Types of Triangles	2	
		4	Triangle Inequality	2	