

SAMSEN WITTAYALAI SCHOOL ENGLISH PROGRAM

COURSE OUTLINE

Learning Period: 3 Periods/Week Credit Unit: 1.5

Grade Level: Mattayomsuksa 4 (Grade 10) Semester 1, Academic Year 2022

Learning Area: Mathematics Samsenwittayalai School English Program

Teacher: Dr. Nattapong Bosuwan

I. COURSE DESCRIPTION

Wring sets; equality; empty set; finite sets; infinite sets; subsets; power sets; operations on sets; Venn diagram; applications of sets; statements; logic operations; truth values; equivalence; negation; tautology; reasoning.

II. INDICATORS / LEARNING OUTCOMES

- 1. Learners' reading, analytical thinking and writing skills meet the criteria prescribed by the educational institutions.
- 2. Learners' desirable characteristics meet the criteria prescribed by the educational institutions.
- 3. M 1.1.1 Understand and use the knowledge about sets to communicate in Mathematics.
- 4. M 1.1.2 Understand and use the knowledge about logic to communicate and reason.

III. TENTATIVE COURSE OUTLINE

Week	Topics / Contents	Indicators	Period(s)	
1	Sets/Writing sets	1	4	
2-3	Sets/Equality, Empty set, Finite Sets, and Infinite Sets	1	5	
4	Sets/Subsets and Power Sets	1,3	3	
5-6	Sets/Operations on Sets	3	5	
7-8	Sets/Venn diagram	4	5	
9-10	Sets/Applications	4	5	
11	Logic/Statements	1	3	
12-13	Logic/Logic Operations	3	6	
14-15	Logic/Truth Values	3	6	

16	Logic/Equivalence	2	3
17	Logic/Negation	3	3
18-19	Logic/Tautology	2	6
20	Logic/Reasoning	4	3

IV. Teaching Methods and Management

	☑ Experiment	☑ Lecture/Discussion	☐ Group work
	☑ Individual work	☐ Game	□ Song
	☑ Self-learning	✓ Demonstration	☐ Role play
	□ Project	☐ Experience	□ ICT
	☐ Local Wisdom based	☐ Others	
V .	Teaching Materials/Supplen	nents	
	☑ Handouts	☑ Worksheets	☐ Teacher's text book
	☐ Graphs/Diagrams	□ Maps	☑ Pictures
	☐ Samples/ Models	☑ Exercises	
	☐ Commercial Text Book		
	□ DVD/VCD		
	☑ Website Youtube		
	□ Others		

VI. Assignment

No.	Assignment	Score	Deadline	Ту	Remark	
	1.200.8	(points)	2 0000000	Individual	Group	110111111
1.	Worksheet	5	Before Midterm Exam.	√		
2.	Homework	10	Each week	✓		
3.	Quiz	10	Before Midterm Exam.	✓		
4.	Homework	10	Each week	~		
5.	Worksheet	5	. Before Final Exam.	✓		

6.	Attendances	5	Each class	✓	
Total		45			

VII. ASSESSMENT AND EVALUATION

Indicator Score	Formative I		Midterm	Formative II				Final	
from SGS	1			10	11	12	13		
Total score	10		15	10	10	15	20		20
1.Learners' reading, analytical thinking				10					
2. Learners' desirable characteristics					10				
3. SC2.1.1-10	10		15						
4. SC1.2.1-18						15	20		20
Total		10	15	55		20			