

PRESIDENT'S OFFICE

REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT SCHEME OF
WORK - 2025

TEACHER'S NAME:

SCHOOL'S NAME:

SUBJECT: BASIC MATHEMATICS CLASS: FORM

ONE

TERM: 1st & 2nd YEAR:

2025

MAIN COMPETENCES	SPECIFIC COMPETENCES	LEARNING ACTIVITIES	SPECIFIC ACTIVITIES	M O N T H	W E E K	P E R I O D S	TEACHING AND LEARNING METHODS	TEACHING AND LEARNING RESOURCES	ASSESSMENT TOOLS	REFERENCES	REMARK
Registration & Orientation course 13/01/2025 - 29/02/2025											
Demonstrate mastery of mathematical language	Use numerical skills in different contexts	(a) Explain the basic concepts of Mathematics <i>(Meaning of mathematics, branches of mathematics, relationship between mathematics and other subjects, importance of mathematics)</i>	To guide students, describe the meaning of mathematics To guide students, discuss branches of mathematics. To lead students describe relationship between mathematics and other subjects To guide students discuss the importance of mathematics	M A R C H	1 st	5	Presentations Field visits. Practical work Research Scientific experiments Project works.	Charts of relationships between mathematics and other fields, real life objects, Math Games and Apps, Educational channels	Oral Questions Exercises Quizzes Home works	TIE(2023), Basic Mathematics for Secondary Schools Book 1 TIE-DSM .	
Demonstrate mastery of mathematical language	Use numerical skills in different contexts	(b) Explain the concept of rational, irrational, and real numbers	To lead students to discuss rational numbers To demonstrate to students on how to perform the basic operations with rational numbers To explain the concept of irrational numbers using examples. To use the number line to illustrate the concept of real numbers. To explain to students the concept of absolute value of a real number. To demonstrate how to find the absolute value of a real number To guide students to solve practical problems related to absolute value of real numbers	M A R C H	2 nd	5	Presentations Field visits. Practical work Research Scientific experiments Project works.	Calculator, Charts of real numbers, ruler, tape measure, graph papers, number line chart	Oral Questions Exercises Quizzes Home works	TIE(2023), Basic Mathematics for Secondary Schools Book 1 TIE-DSM .	

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		Convert repeating/ recurring decimals into fractions and vice versa	To lead students, discuss the concept of decimals To write the place value of a digit in a decimal number To convert a fraction into decimals To guide students, convert decimals into fractions and vice versa To guide students distinguish terminating, repeating/recurring, non-repeating and non-terminating decimals.	M A R C H	3 rd	5	Presentations Problem solving Field visits. Practical work Research Scientific experiments Project works.	Calculator, Charts of real numbers, ruler, tape measure, graph papers	Oral Questions Exercises Quizzes Home works	TIE(2023), Basic Mathematics for Secondary Schools Book 1 TIE-DSM .	
		(c) Represent rational numbers on a number line	To use the number line to illustrate the concept of real numbers. To explain to students the concept of absolute value of a real number. To demonstrate how to find the absolute value of a real number. To guide students to solve practical problems related to absolute value of real numbers.	M A R C H	4 th	5	Presentations Problem solving Field visits. Practical work Research Scientific experiments Project works.			TIE(2023), Basic Mathematics for Secondary Schools Book 1 TIE-DSM .	
MID – TERM ASSESMENT											
MID – TERM BREAK 11/04/2025 – 22/04/2025											

MAIN COMPETENCES	SPECIFIC COMPETENCES	LEARNING ACTIVITIES	SPECIFIC ACTIVITIES	M O N T H	W E E K	P E R I O D S	TEACHING AND LEARNING METHODS	TEACHING AND LEARNING RESOURCES	ASSESSMENT TOOLS	REFERENCES	REMARK
		) Explain the concept of inequalities and absolute values of real numbers	To use the number line to illustrate the concept of real numbers. To explain to students the concept of absolute value of a real number. To demonstrate how to find the absolute value of a real number. To guide students to solve practical problems related to absolute value of real numbers.	A P R I L	4 th	5	Presentations Problem solving Field visits. Practical work Research Scientific experiments Project works.	Calculator, Charts of real numbers, ruler, tape measure, graph papers	Oral Questions Exercises Quizzes Home works	TIE(2023), Basic Mathematics for Secondary Schools Book 1 TIE-DSM .	
		) Describe the importance of numbers in real-life situations	To guide students discuss the importance of numbers in real-life situations		1 st	3	Presentations Problem solving Field visits. Practical work Research Scientific experiments Project works.			TIE(2023), Basic Mathematics for Secondary Schools Book 1 TIE-DSM .	
	1.2 Use ratios and proportions in daily life	) Explain the concept of ratios and proportions	To lead students to discuss the relationship between ratio and fraction To lead students, discuss on how to divide a quantity into its proportional parts		1 st	2	Presentations Problem solving Field visits. Practical work Research Scientific experiments Project works.	Money, charts of real-life scenarios, interest calculators, and games real objects, and bank statements	Oral Questions Exercises Quizzes Home works	TIE(2023), Basic Mathematics for Secondary Schools Book 1 TIE-DSM .	

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		Use approximations in computations and measurements of quantities in various contexts	To guide to Use approximations in computations and measurements of quantities in various contexts	JULY	2 nd	5	Presentations Problem solving Field visits. Practical work Research Scientific experiments Project works.		Oral Questions Exercises Quizzes Home works	TIE(2023), Basic Mathematics for Secondary Schools Book 1 TIE-DSM .	
	2.2 Use algebra and matrices in problem solving	a) Explore the basic tenets of algebra <i>(algebraic expressions and equations, linear simultaneous equations of two unknowns, inequalities in one unknown)</i>	To demonstrate how to form and simplify algebraic expressions To lead students, formulate equations with one unknown To guide students to solve equations with one unknown	JULY	3 rd	5	Presentations Problem solving Field visits. Practical work Research Scientific experiments Project works.	Beam balance, mathematical software such as MATLAB, and GeoGebra, real objects, Algebra animations	Oral Questions Exercises Quizzes Home works	TIE(2023), Basic Mathematics for Secondary Schools Book 1 TIE-DSM .	
		(b) Use algebraic expressions to model situations <i>(word problems into algebraic expressions and equations)</i>	To guide students to form and solve algebraic equations from word To guide students to solve linear simultaneous equations To lead students, formulate linear simultaneous equations from word problems	JULY	4 th	5	Presentations Problem solving Field visits. Practical work Research Scientific experiments Project works.	Beam balance, mathematical software such as MATLAB, and GeoGebra, real objects, Algebra animations	Oral Questions Exercises Quizzes Home works	TIE(2023), Basic Mathematics for Secondary Schools Book 1 TIE-DSM .	
		(c) Solve simultaneous equations using substitution and elimination methods	To lead students to Solve simultaneous equations using substitution and elimination methods	AUG	1 st	5	Presentations Problem solving Field visits. Practical work Research Scientific experiments Project works.			TIE(2023), Basic Mathematics for Secondary Schools Book 1 TIE-DSM .	
REVISION & MID-TERM ASSESMENT											
MID TERM BREAK 29/08/2025 - 15/09/2025											

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		(d) Solve inequalities in one unknown	To lead students to Solve inequalities in one unknown	SEPT	3 rd	5	Presentations Problem solving Field visits. Practical work Research Scientific experiments Project works.	Number line chart, graphing calculator, real objects	Oral Questions Exercises Quizzes Home works	TIE(2023), Basic Mathematics for Secondary Schools Book 1 TIE-DSM .	
3.0 Demonstrate mastery of basic concepts in coordinate geometry, trigonometry, circles, vectors, probability and statistics	3.1 Use basic coordinate geometry, trigonometry and vectors skills in daily life	(a) Explore the basic tenets of coordinate geometry <i>(gradient and equations of a straight line, graphs of linear equations)</i>	To guide students, determine the equation of a line given two points To guide students, determine the equation of a line given one point and the gradient	SEPT	4 th	5	Presentations Problem solving Field visits. Practical work Research Scientific experiments Project works.	Mathematical software such as MATLAB, and GeoGebra, Maple, Mathematica, graph papers	Oral Questions Exercises Quizzes Home works	TIE(2023), Basic Mathematics for Secondary Schools Book 1 TIE-DSM .	
		(b) Find the gradient/slope of a line		OCT	1 st	5					
		(c) Determine the equation of a straight line and draw its graph	To guide students, determine the gradient of a line	OCT	2 nd	5	Presentations Problem solving Field visits. Practical work Research Scientific experiments Project works.	Mathematical software such as MATLAB, and GeoGebra, Maple, Mathematica, graph papers	Oral Questions Exercises Quizzes Home works	TIE(2023), Basic Mathematics for Secondary Schools Book 1 TIE-DSM .	

		(d) Solve linear simultaneous equations graphically	To demonstrate using examples solving simultaneous equations graphically.	OCT	3 rd	5	Presentations Problem solving Field visits. Practical work Research Scientific experiments Project works.					
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		(e) Use mathematical software to solve and draw graphs of simultaneous equations	To demonstrate using mathematical software to solve and draw graphs of simultaneous equations	OCT	4 th	5	Presentations Problem solving Field visits. Practical work Research Scientific experiments Project works.	Mathematical software such as MATLAB, and GeoGebra, Maple, Mathematica, graph papers	Oral Questions Exercises Quizzes Home works	TIE(2023), Basic Mathematics for Secondary Schools Book 1 TIE-DSM .	
REVISION AND ANNUAL ASSESSMENT											
END OF YEAR BREAK 05/12/2025											