

MATHEMATICS

SS I

FIRST TERM

THEME: NUMBER AND NUMERATION

WEEK	TOPIC	PERFORMANCE OBJECTIVES	CONTENT	ACTIVITIES		TEACHING AND LEARNING RESOURCES	EVALUATION GUIDE
				TEACHER	STUDENTS		
1	Number Base System.	Students should be able to: (1) convert numbers from other bases to base 10. (2) convert decimal fraction from other bases to base 10. (3) perform some basic operations on number bases. (4) apply number base system to computer programming.	(1) Conversion from one base to base 10 (2) Conversion of decimal fractions in one base to another. (3) Performing arithmetic operation in number base. (4) Application to computer programming.	(1) Guides students to count numbers in different bases. (2) Converts from one base to the other fractions from one base to the other. (3) Performs arithmetic operation, such as, addition, subtraction, multiplication and division on bases.	(1) State some bases such as binary (base 2), ternary basic, as in binary (base 5) etc. (2) Convert numbers from one base to the other. (4) Convert decimal fraction from one base to base ten. (5) Perform arithmetic operation on bases.	Charts showing the conversion from one base to the another (Dienes blocks).	Students to: (1) convert number from other bases to base 10. (2) 16.42 to base 10^7 . (3) 234 to base 6^7 (4) solve some problems on arithmetic operations involving bases.
2	Modular arithmetic	Students should be able to: (1) define the term modular arithmetic. (2) perform some basic arithmetic operations of addition, subtraction etc. (3) apply modular arithmetic in everyday life.	(1) Revision of arithmetic operations. (2) Conceptual view of modular arithmetic. (3) Simple operation of modular arithmetic and it application to life.	Guides students to: (1) revise arithmetic operations of integers. (2) define modular arithmetic. (3) add, subtract, divide and multiply in modular. (4) appreciate its application to shift duty, name market days, menstrual calculation in real life situation.	(1) Define modular arithmetic. (2) Perform addition, subtraction, multiplication etc. in modular arithmetic. (3) Apply modular arithmetic in market days, menstrual calculation and anniversaries.	A chart showing modular arithmetic samples of shift duty, menstrual chart.	Students to: solve problem on modular arithmetic, perform the arithmetic operations of -addition -subtraction -multiplication -division.

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Tobias Bleicker



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