

PHYSICS

SS I

FIRST TERM

THEME 1: INTERACTION OF MATTER, SPACE AND TIME

TOPIC	PERFORMANCE OBJECTIVES	CONTENT	ACTIVITIES		TEACHING AND LEARNING RESOURCES	EVALUATION GUIDE
			TEACHER	STUDENTS		
Fundamentals and derived quantities and units	Students should be able to: (1) define fundamental and derived quantities. (2) distinguish between fundamental and derived quantities. (3) distinguish between fundamental and derived units.	(1) Fundamental quantities: mass, length, time, current, temperature, energy etc. (2) Fundamental units: Kg, M, S, K, A etc. (3) Derived quantities: force, speed, volume, area etc. (4) Derived units: Ms^{-1} , M^3 , M^2 etc.	(1) Leads discussion on standard units of measurement. (2) Displays these measuring instruments. (3) Demonstrates the measurement of the fundamental quantities.	(1) Give examples of derived quantities and units. (2) Should identify these measuring instruments. (3) Should measure length, mass of objects in their environment.	(1) Metre rule (2) Tape (3) Spring balance (4) Chemical balance. (5) Vernier calipers.	Students to: (1) distinguish fundamental quantities for derived quantities. (2) identify how to use the measuring instrument.
Position, distance and displacement	Students should be able to: distinguish between distance, and displacement in a translational motion.	(1) Concept of position, distance and time. (2) Concept of displacement. (3) Measurement of distance and displacement. (4) Distinction between distance and displacement.	Demonstrates how to use a size metre string to measure length of the field, classroom block, students table and chair.	Use the metre rule to measure the length and breadth of the classroom etc.	(1) Metre rule (2) Tape (3) A pair of compasses string and protractor.	Students to: (1) use different measuring instruments to measure. (2) identify a body in motion or at rest relative to reference point.
Time	Students should be able to: (1) define time. (2) list various instrument for measuring time. (3) construct a clock for measuring time interval for simple system that has a repetitive motion.	(1) Concept of time. (2) Ways of measuring time. (3) Units of time and conversion.	(1) Leads discussion in the use of repetitive events to define day and night, season and festivals. (2) Displays some measuring instrument.	(1) Practice the use of: -Heart beat -Sand clock -Pendulum -Stop clock/watch (2) Discuss the use of repetitive events to define day and night, seasons and festival.	(1) Sand-clock (2) Funnel-sand, beaker and retort stand, water clock burette, water pendulum bob, string stop clock/watch ticker-tape and tape.	Students to: (1) Use different types of measuring instruments to measure time correctly. (2) To solve numerical problems how many seconds, days, weeks, years.

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