

PHYSICS
SS II
THIRD TERM

SUB-THEME III: WAVES MOTION WITHOUT MATERIAL TRANSFER

WEEK	TOPIC	PERFORMANCE OBJECTIVES	CONTENT	ACTIVITIES		TEACHING AND LEARNING RESOURCES	EVALUATION GUIDE
				TEACHER	STUDENTS		
1	Production and propagation of waves	Students should be able to: (1) generate mechanical waves. (2) state the important characteristics of waves (3) produce circular and plane waves using a ripple tank. (4) generate and demonstrate longitudinal and transverse waves using suitable materials. (5) identify the crest, trough, amplitude wave, length and points in phase on a given sine wave form (6) derive and use the relationship between wave velocity, frequency and wavelength. (7) identify light as electromagnetic waves.	(1) Production of mechanical waves. (2) Pulsating system -energy transmitted with definite speed, frequency and wavelength. (3) Wave form -description and graphical representation. (4) Mathematical relationships among F , λ , T , and V . (5) Sound and light as wave phenomena.	(1) Provides the materials for generating mechanical waves. (2) Demonstrates the use of ropes and slinky to generate mechanical waves. (3) Sets up the ripple tank and demonstrate how it is used to generate various waves. (4) Gives simple problems on the use of the wave equation $V=f\lambda$.	(1) Generate mechanical waves using ropes (Slinky) (2) Use the ripple tank to show water waves (3) Demonstrate energy propagation by waves using water waves. (4) Determine the speed of a wave by using the waves generated in a rope or slinky (spring) (5) Draw a graphical representation of transverse and longitudinal waves. (6) Solve problems using the wave equation $V=f\lambda$.	(1) Rope or slinky coil, piece of cloth tied on a part of the rope or slinky coil. (2) Ripple tank or wide transparent bowl, water. (3) Stop watch or clock, rope or slinky coil.	Students to: (1) distinguish between wave motion and vibration of particle. (2) identify forms of waves. (3) state the characteristics of waves. (4) solve simple problems using the equation $V=f\lambda$.
2	Types of waves	Students should be able to: (1) classify waves into longitudinal and transverse waves by using -mode of vibrations -direction of propagation. (2) write down and explain the terms in the wave equation.	(1) Longitudinal waves (2) Transverse waves (3) Wave equation $Y=A \sin (\omega t - \frac{2\pi x}{\lambda})$	(1) Provides rope and slinky to demonstrate transverse and longitudinal waves. (2) Explains the wave equation $Y=A \sin (\omega t - \frac{2\pi x}{\lambda})$ and various terms.	Use the rope and slinky to demonstrate transverse and longitudinal waves.	Rope or slinky	Students to: (1) explain the terms the terms in the wave equation and solve simple problems. 2. using the equation.

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