Tripoli Evangelical School

Curriculum

Class : Grade 8
Subject: Physics

Teachers name: Ziad Mina

Cycle: Intermediate
Textbook: National Text Book
Coordinator: Dr. Jamal Bitar

HOD: Mrs. Roula Ghantous

Unit	Objectives
Unit 1 : Mechanics	 Define the motion of an object Define the trajectory of a moving object Distinguish between instant and duration Define the average speed Define the instantaneous speed. Know that a force represents a mechanical action exerted by a body on another body Name the mechanical effects of a force Identify the characteristic elements of a force Know the SI unit of the force Represent a force by a vector. Distinguish between a contact force and a force acting from a distance Know the usefulness of the force of friction Define and characterize the weight of a body Relate the weight of a body to its mass Distinguish between the weight of a body and its mass.
Unit 2 : Waves	 Characterize a vibratory motion Characterize a periodic wave Know that a wave carries energy Identify the vibratory nature of sound Know that sound does not propagate in vacuum Distinguish between infrasound ,audible sound and ultrasound Identify the physiological qualities of sound Know that sound is reflected by obstacles Know that sound can be harmful Know that an electromagnetic wave is due to an electric perturbation Know that light is an electromagnetic wave that propagates in vacuum Define a transparent medium Know the value of the speed of light in vacuum Identify the different parts of electromagnetic

Unit	Objectives
Unit 2: Waves	 Name some applications of electromagnetic waves. Define dispersion of white light and show evidence of it Define the scattering of light Explain the vision of illuminated object by scattering of light Relate the color of a body to the light it diffuses
Unit 3 : Optics	 Define the role of a light filter. Distinguish between transparent bodies and opaque bodies State the principle of rectilinear propagation of
	 light Represent the path of ligh by a light ray Explain the phenomenon of the shadow Distinguish between reflection and scattering State the law of reflection related to the angles of incidence and reflection Characterize the image of an object given by a plane mirror.