

Curriculum

Class : 3SE

Subject : Physics

Teacher's name : Ziad Mina

Cycle : Secondary

Textbook : National Textbook (S 3)

Coordinator : Dr. Jamal Bitar

HOD : Miss Wafa Bitar

Unit	Objectives
<p style="text-align: center;">Unit 1 : Energy</p>	<ul style="list-style-type: none"> • Define and calculate work in the case of a constant force parallel to the displacement • Define and calculate the gravitational potential energy • Define and calculate the kinetic energy • Define and calculate the mechanical energy • Apply the conservation of the mechanical energy • Relate thermal energy to changes in temperature and changes in state • Define chemical energy • Relate electrical energy to charge and voltage • Know that the nuclear energy is due to nuclear forces • Relate mass to energy ($E = m c^2$) • Apply the law of conservation of energy • Give examples of sources of energy of each form • Relate pollution to different sources of energy • Identify the effects of pollution on environment and health
<p style="text-align: center;">Unit 2 : The Universe</p>	<ul style="list-style-type: none"> • Distinguish between astronomy, cosmology and astrology • Explain the geocentric theory of Aristotle and Ptolemy • Know the development of astronomy in the 16th and 17th century (Scientific revolution) • Recognize that the development of astronomy during the 18th and 19th centuries was a continuation of the ideas of the Scientific Revolution • List the basic data of the constituents of the solar system