



ACTIVITY

SHS LEARNING

Name: _____ Score/Mark: _____

Grade and Section: _____ Date: _____

Strand: STEM ABM HUMSS ICT (TVL Track)

Subject: _____

Type of Activity : Concept Notes Skills: Exercise / Drill Illustration
 Laboratory Report Essay/Task Report Others:

Activity Title: 1. Semester Plan for Biology I

Learning Target: To list the topics covered in Biology I.

References: _____

TOPIC	MATERIAL
Introduction to Biology	The scope, applications, unifying themes, and diversity of biology
The Cell	The cellular basis of life, characteristics of prokaryotic (Bacteria and Archaea) and eukaryotic cells (Plants, Animals, Fungi, etc.), structures within cells, movement of cells, and specialization of cells
Cell Division	<ul style="list-style-type: none"> • Bacterial cell division • Eukaryotic cell division resulting in genetically identical offspring • Eukaryotic cell division resulting in non-genetically identical sexually reproductive cells
The Cell Membrane and Transport	<ul style="list-style-type: none"> • The structure and components of the cell membrane • Energy free transport of molecules across the membrane • Energy dependent transport of molecules across the membrane • Transporting large molecules into the cell
Large Biological Molecules	The large biological molecules (lipids, proteins, nucleic acids, and carbohydrates) responsible for: providing energy, building materials, storing information, cellular communication, defense, and many other cellular functions
Cellular Respiration and Fermentation	The degradation of sugars to produce energy in the presence and absence of oxygen
Photosynthesis	Creating sugars by capturing energy from light and carbon from the air