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| **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: | | |  | | | | | | | | | |

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| 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** | * 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** | * 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 |