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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 |