

Curriculum

Class : Grade 6

Cycle: Upper elementary

Subject: Sciences

Textbook: Macmillan/McGraw-Hill

<u>Learning Domains /Units</u>	<u>Objectives</u>	<u>Learning Outcomes/ Competencies</u> Students should be able to
Unit A/ Diversity of life: Classifying Plants and Animals	-Classify the different living organisms into Kingdoms. -Classify plants as vascular and non vascular plants.	<ul style="list-style-type: none">- List the five life characteristics.- List the six kingdoms and give two examples on each.- Illustrate how bacteria can be useful and harmful.- Illustrate how fungi can be useful and harmful.- List safety tips used to avoid harmful microorganisms. - Compare and contrast vascular and non vascular plants.- Identify the main functions of each plant part.(roots –stems-leaves)- Experiment the effect of light on plants. (use variables- Draw conclusions)- Define photosynthesis.- Write the equation of photosynthesis.- Match the plants that people usually eat to their parts.

**Classifying Plants
and Animals**

-Classify animals as
vertebrates and
invertebrates.

-Identify the different
types of adaptations
in plants and animals.

- Compare and contrast vertebrates and invertebrates.
- Identify the main characteristics of each class of vertebrates.
- Compare in a table the different classes of vertebrates according to a set of given characteristics.
- Identify the main characteristics of each class of invertebrates.
- Match each type of invertebrates to its specific characteristic.

- Compare and contrast structural and behavioral adaptations.
- Identify the adaptations that help plants survive in various climates and environments.
- Illustrate structural and behavioral adaptations in plants.
- Illustrate structural and behavioral adaptations in animals.
- Compare and contrast camouflage and mimicry.
- Demonstrate how a waxy coating helps plants retain moisture.

<p>Unit A /diversity of life:</p> <p>Cells</p>	<p>-Identify the basic types of body cells.</p> <p>-Describe the different levels of organization in multicellular organisms.</p> <p>-Distinguish between Animal cells and Plant</p>	<ul style="list-style-type: none"> - Define cells . - Relate the structure of a cell to its function. - Identify the structures of some basic body cells. - Identify the functions of some basic body cells. - Define tissues and give examples. - Define organs and give examples. - Define organ systems and give examples. - List the different levels of organization from cells to organism. - Draw and label an animal cell.. - Identify the structure and function of each cell part. - Draw and label a plant cell. - Compare and contrast an animal cell and a plant cell. - Construct through a team a cell model using creative items and labeling the cell parts. - Represent the data of a graph in the form of a table.

	<p>cells.</p> <p>-Describe diffusion in cells and give examples.</p> <p>-Distinguish between cell respiration and photosynthesis.</p>	<ul style="list-style-type: none">- Define diffusion and give examples.- Indicate the direction of diffusion of a certain substance having different concentrations in two different media followed by justification. - Define cell respiration.- Write the equation of cell respiration.- Write three differences between cell respiration and photosynthesis.
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<p>Classifying Matter</p>	<ul style="list-style-type: none"> -Calculate the density of an object -Distinguish between physical changes and chemical changes. -Identify the three states of matter. -Distinguish between elements and compounds. -Identify the three particles of an atom. 	<ul style="list-style-type: none"> -Calculate the mass of an object on the Moon knowing its mass on the Earth. -Calculate the weight of an object on the Moon knowing its mass on Earth. -Calculate the density of an object knowing its mass and volume. -Compare and contrast physical and chemical changes -Identify a given change as physical or chemical change. -List the 3 states of matter. -Distinguish between the 3 states of matter. -Write 2 differences between elements and compounds. -Draw and label an atom. -Distinguish between the three particles of an atom
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