**Saint Gabriel’s Foundation**

**The Learning Strands, Standards and Indicators**

**Subject: Science I.E. Code**

**Level: Grade 2 Semester 1**

**Strand 1: Living and Family**

 **Sub-Strand: Plant Life**

**Standard Sc 1.1** Understanding basic unit of living things; relationship between structures and functions of living things, which are interlinked; investigative process for seeking knowledge; ability to communicate acquired knowledge that could be applied to one’s life and care for living things

**Indicators:**

Sc1.1.1Identify the different parts of a plant;

Sc1.1.2State the function of each part of the plant;

Sc1.1.3 Label the parts of a plant;

Sc1.1.4Infer that leaves are of different shape and size;

Sc1.1.5State the function of chlorophyll;

Sc1.1.6Explain how plants make food;

Sc1.1.7Identify the things needed by plants to makes food;

Sc1.1.8Discuss the process of photosynthesis;

Sc1.1.9Identify the types of stem in the given plants;

Sc1.1.10Identify the steps on how a flower becomes a fruit;

Sc1.1.11Classify different fruits according to their seed content;

Sc1.1.12Draw and label the parts of a seed;

Sc1.1.13Infer that seeds need warmth, water and air to germinate;

Sc1.1.14Describe the germination of seed;

Sc1.1.15 Recognize the importance of plants.

**Strand 2: Life and the Environment**

 **Sub-Strand: Habitats**

**Standard Sc 2.1** Understanding of local environment; relationship between the environment and living things; relationship between living things in the ecosystem; investigative process for seeking knowledge and scientific mind; and communicating acquired knowledge that could be applied for useful purposes

**Indicators:**

Sc2.2.1 Define habitat;

Sc2.1.2 Identify different habitats;

Sc2.1.3 Compare and contrast land and water habitats;

Sc2.1.4 Recognize different plants and animals in different land habitats;

Sc2.1.5 Describe the conditions of forest, desert, and grassland habitat;

Sc2.1.6 List down plants and animals in each type of habitats;

Sc2.1.7 Identify the habitat of the given plants and animals;

Sc2.1.8 Describe conditions of a desert habitat;

Sc2.1.9 Identify the types of land habitats;

Sc2.1.10 Identify the types of water habitats;

Sc2.1.11 Identify the types of water habitats;

Sc2.1.12 Compare and contrast land and water habitats;

Sc2.1.13 List down examples of living things in each type of habitat;

Sc2.1.14 Differentiate ocean from pond habitat;

Sc2.1.15 Identify the habitat of the given living things;

Sc2.1.16 Practice saving water;

Sc2.1.17 Explain the relationship between plants and animals in a given habitat;

Sc2.1.18 Identify the living things helping each other in a habitat;

Sc2.1.19 Cite examples of living things that are closely related in a habitat;

Sc2.1.20 Exemplify a give and take relationship with each other.

**Strand 1: Living and Family**

 **Sub-Strand: The Human Body**

**Standard Sc 1.1** Understanding basic unit of living things; relationship between structures and functions of living things, which are interlinked; investigative process for seeking knowledge; ability to communicate acquired knowledge that could be applied to one’s life and care for living things

**Indicators:**

Sc2.1.1 Identify the five senses organs;

Sc2.1.2 Differentiate organ and organ system;

Sc2.1.3 Differentiate sense organs and state their functions;

Sc2.1.4 Recognize the organ system in the human body;

Sc2.1.5 Identify parts of human respiratory system and give its functions;

Sc2.1.6 Differentiate breathe in and breathe out;

Sc2.1.7 Demonstrate how carbon dioxide is released from the lungs;

Sc2.1.8 Explain the importance of exercise and breathing;

Sc2.1.9 Define digestive system;

Sc2.1.10 Identify the parts of human digestive system and give its functions;

Sc2.1.11 Label the parts of human digestive system;

Sc2.1.12 Trace and explain the path of food from mouth to anus;

Sc2.1.13 Explain the circulatory system;

Sc2.1.14 Identify and label the parts of circulatory system;

Sc2.1.15 State the function of each part of the human circulatory system;

Sc2.1.16 Relate circulation to respiration and digestion in our body;

Sc2.1.17 Identify the parts of skeletal system;

Sc2.1.18 State the function of each part of skeletal system;

Sc2.1.19 State and identify the function of muscular system;

Sc2.1.20 Demonstrate the interdependence of skeletal and muscular system;

Sc2.1.21 Classify a certain organ to its system.

**Strand 7: Astronomy and Space**

 **Sub-Strand: Seasons**

**Standard Sc 7.1** Understanding of evolution of the solar system, galaxies and the universe; interrelationships within the solar system and their effects on living things on Earth; investigative process for seeking knowledge and scientific mind; and communication of acquired knowledge for useful purposes

**Indicators:**

Sc7.1.1 Explain what causesof day and night;

Sc7.1.2 Describe and explain the importance of Sun;

Sc7.1.3 Discuss that earth is a home for all living things;

Sc7.1.4 Demonstrate rotation of earth about its own axis own;

Sc7.1.5 Identify four seasons;

Sc7.1.6 Relate the change in seasons as the Earth goes round the Sun;

Sc7.1.7 Identify clothes suitable during each season;

Sc7.1.8 Classify different activities in each seasons;

Sc7.1.9 Explain conditions on Moon and compare it with earth;

Sc7.1.10 Demonstrate how moon seems to change shape;

Sc7.1.11 Compare and contrast the Sun, the Moon and the Earth.



**Saint Gabriel’s College**

**Subject: Science I.E. Code Sc. 12102**

**Class Level: Primary 2 Semester 2**

**Strand 3:** Substances and Properties of Substances

**Sub-Strand: Materials**

**Standard Sc 3.1** Understanding of properties of substances; relationship between properties

 of substances and structures and binding forces between particles;

 investigative process for seeking knowledge and scientific mind; and

 communicating acquired knowledge for useful purposes.

**Indicators:**

Sc3.1.1 Identify the different types of materials;

Sc3.1.2 Identify the properties of materials and explain each of the property;

Sc3.1.3 Classify and categorize different materials according to their properties;

Sc3.1.4 Relate that things like bags, cooking wares, are made up of two or more different materials;

Sc3.1.5 Explain that there are things of the same kind but are made of different materials;

Sc3.1.6 Investigate, observe and explain the choice of materials affects our daily life;

Sc3.1.7 Identify and organize the criteria in the selection of materials to make things;

Sc3.1.8 Compare objects based on observable characteristics;

Sc3.1.9 Sort and categorize objects based on observable characteristics;

Sc3.1.10 Communicate the acquired knowledge through discussion with peers through dictation, drawing and presentation; and apply the acquired knowledge for useful purposes;

Sc3.1.11 Make a concept map to show the types of materials;

Sc3.1.12 Perform experiment to demonstrate each of the properties of materials;

Sc3.1.13 Integrate cautiousness in performing experiments;

Sc3.1.14 Recognize the importance of materials to everyday life;

Sc3.1.15 Relate the properties of materials to its uses.

**Strand 5:** Energy

**Sub-Strand: Light**

**Standards Sc 5.1** Understanding of relationship between energy and life; energy

 transformation; interrelationship between substances and energy; effects of

 energy utilization on life and the environment; investigative process for

 seeking knowledge; and communication of acquired knowledge that could

 be applied for useful purposes.

**Indicators:**

Sc5.1.1 State that an object can be seen when it reflects light or when it is a source of light;

Sc5.1.2 Identify and explain the different sources of light;

Sc5.1.3 Infer that the Sun is the most important source of light;

Sc5.1.4 Compare the Sun with other sources of light;

Sc5.1.5 Explain that plants need light to make food;

Sc5.1.6 State that light travels in a straight line;

Sc5.1.7 Relate the importance of sunlight to all living things;

Sc5.1.8 Explain that shadow is formed when light is completely or partially blocked by an object;

Sc5.1.9 Relate the size of a shadow with respect to its position from the source of light;

Sc5.1.10 Appreciate the existence of the Sun as the ultimate source of heat and light on Earth;

Sc5.1.11 Explain the importance of light in seeing things;

Sc5.1.12 Explain how light travels;

Sc5.1.13 Perform an experiment to demonstrate that light travels in a straight line path;

Sc5.1.114 Illustrate and discuss how to see things;

Sc5.1.115Describe the shadow formed in the morning, afternoon and midday**;**

Sc5.1.116 Make a concept map about light.

**Strand 5:** Energy

**Sub-Strand: Sound**

**Standards Sc 5.1** Understanding of relationship between energy and life; energy

 transformation; interrelationship between substances and energy; effects of

 energy utilization on life and the environment; investigative process for

 seeking knowledge; and communication of acquired knowledge that could

 be applied for useful purposes.

**Indicators:**

Sc5.1.1 Identify the different types of sounds;

Sc5.1.2 Distinguish loud sound from soft sound; high sound from low sound; and pleasant sound from unpleasant sound;

Sc5.1.3 Give example for each type of sound;

Sc5.1.4 Identify and classify different sounds of animals and nature;

Sc5.1.5 Identify different ways of making sound using some musical instruments;

Sc5.1.6 Demonstrate the sound people can make;

Sc5.1.7 Explain why people make different sounds;

Sc5.1.8 Identify the ways on how musical instruments make sound;

Sc5.1.9 Demonstrate the ways on how to play the musical instruments;

Sc5.1.10 Perform a simple demonstration on how to make sound;

Sc5.1.11 Identify and discuss the uses of sound;

Sc5.1.1.12 Recognize the importance of sounds to animals and human beings;

Sc5.1.1.13 Role play a situation showing the importance of sound;

Sc51.1.14 Practice concern for others and show self-discipline.

**Basic Standard of Learning:**

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| **Semester** | **Sub-strands** | **Standards** |
|  **Semester 1** | Plant Life | Standard Sc 1.1 |
| Habitat | Standard Sc 2.1 |
| The Human Body | Standard Sc 1.1 |
| Seasons | Standard Sc 6.1 and Sc 7.1 |
| **Semester 2** | Materials | Standard Sc 3.1 |
| Light | Standard Sc 5.1 |
| Sound | Standard Sc 5.1 |

**General Reference:**

Sumitra Siromani (2011). **My World of Science for Primary 2.** Published Exclusively for Saint Gabriel’s Foundation. 1st Edition, Black Swan Private Limited, India.

Prepared by:

**Miss Belen R. Perez**

Foreign Teacher