

**YEAR PLAN 2018- 2019
Grade VII BIOLOGY**

The academic year is divided into **two** sessions

Session One: June 2018 to October 2018

Session Two: November 2018 to March 2019

Continuous assessments: July, August, September, November, December, January, February

Summative Assessment I: October 2018

Summative Assessment II: March 2019

Please check the **index page** in the notebooks for Continuous Assessment marks. .

General Objectives:

- To develop an understanding on the importance of cells and tissues in our lives.
- To impart knowledge through the study of nature.
- To recognize various kinds of tissues.
- To develop an understanding of the functioning of the excretory and nervous systems in the human body.
- To create an awareness on health and hygiene.
- To understand the features that help organisms to adapt to their particular environment.

Project:

SA1: Make picture cards of different organisms in the five kingdom classification and write their characteristics on the other side of the card.

SAII: To do a report on the sanitation in India, emphasizing on Govt. programmes.

Yearlong project: Study and extension of paludarium in the school campus.

Session One June 2018 to October 2018

Duration	Topic	Specific learning objectives	Activities
June -July	UNIT 1.Tissue	To distinguish between tissues. To recognize, identify and draw figures of plant and animal tissues. To recognize meristematic and permanent tissues To draw diagrams of different tissues and label them. To classify the different types of animal tissues.	Observe different types of tissues in the microscope. Identify various tissues. Observe charts of plant and animal tissues. Draw pictures of various tissues. Identifying meristematic and permanent tissues in plants. Identifying complex tissues in plants. Recognizing the various animal tissues with the help of diagrams.
July	UNIT 2.Kingdom classification I	To identify the purpose of classification. To understand the advantages of classification. To learn the scientific nomenclature. Understanding the five kingdom classification. To learn the characteristics of each kingdom with suitable examples.	Visiting a nearby zoo or garden. Children trying to classify plants and animals in their own way. Identifying organisms with the help of the pictures from the secondary source. Identify any five organisms and write their scientific names. List the useful and harmful effects of bacteria and fungi Drawing pictures of organisms belonging to each kingdom. Charts, models and pictures from the net are observed. Observe the plants in the school campus and write its characteristics. PPTs and videos on the five kingdom classification.
August-September	UNIT 3.Kingdom classification II	To classify the animals based on the presence or absence of backbone. To learn the different phyla of invertebrates and vertebrates.	Specimens from the laboratory are observed and write their characteristics. Draw and label the different organisms in each phyla.
September-October.	UNIT 4.Plant life.	To identify the importance of leaves in photosynthesis. To enlist the factors affecting photosynthesis. To draw pictures of stomata and chloroplast. To identify the difference between respiration and photosynthesis. To be able to differentiate between anaerobic and aerobic respiration.	Children collect leaves of different colours and identify the pigment responsible. Stomata and chloroplast are identified in the lab using a microscope. Drawing pictures of chloroplast and stomata and label their parts. The process of photosynthesis is represented in a flowchart model. Permanent slides of leaves to identify stomata are observed.

			<p>PPTs and videos. Experiments to demonstrate evolution of oxygen during photosynthesis. Experiments to show the presence of starch. Experiments on yeast to show anaerobic respiration. Observe the plants in the paludarium and write the different types of interactions.</p>
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Session Two: November 2018 to March 2019

	Topic	Specific learning objectives	Activities
November-December.	UNIT 5. The Human body	<p>To understand the importance of kidneys and the process of excretion. To draw the outline figure of human body and mark the location of kidneys. To identify the different types of sense organs and its functions. Identifying the various parts of nervous system like brain, spinal cord, and nerves. To be able to relate that all parts of the body are connected by nerves.</p>	<p>The nervous and excretory systems are explained with the help of charts. Children draw diagrams of the nervous system and excretory system. Model of the kidneys and nervous system can be made. PPTs and videos. Role play on the care of sense organs. Write about the different types of neural and urinary disorders. Research on dialysis and renal transplantation.</p>
January-February	UNIT 6. Health and hygiene.	<p>To define the terms allergens and allergy. To identify the symptoms produced by allergens. To understand the precautions to be taken if they suffer from any kind of allergies.</p>	<p>Discussion on allergens. Enlisting causes of allergy. Discussing various ways to keep one healthy and safe. Discussing with a doctor about allergies and its treatments. PPTs and videos. Write about different types of allergies and its symptoms.</p>

Facilitators: Mrs. Neethu Rani Joseph and Ms. Josephine Joseph.

Name of the text book: Connect with Science ,Grade7 –Sangeetha Sinha

Approved by the Principal