

Academic Plan
Session 2016-2017
Subject - Science
Class V

SUMMATIVE ASSESSMENT - I

1. Plants
2. Animals –Our Friends
3. Forests
4. Food
5. My Body
6. Importance of Water

SUMMATIVE ASSESSMENT - II

1. Air
2. Our Solar System
3. Observing the Sky
4. Properties of Water
5. Spoilage and Wastage of Food & Food Preservation
6. Fuels

SCHEDULE OF FORMATIVE ASSESSMENT & UNIT TEST

FORMATIVE ASSESSMENT-I	FORMATIVE ASSESSMENT-II	FORMATIVE ASSESSMENT-III	FORMATIVE ASSESSMENT-IV
UNIT TEST (20)	UNIT TEST (20) HOLIDAY HOME WORK (10) • (INTERDISCIPLINARY PROJECT) Activity (10)	UNIT TEST (20) ACTIVITY (10) • MCQ (10)	UNIT TEST (20) HOME WORK/ ASSIGNMENT (SA-I(10) + SA-II(10))

SYLLABUS FOR UNIT TEST -I

Plants

SYLLABUS FOR UNIT TEST -II

Food

SYLLABUS FOR UNIT TEST -III

Air

SYLLABUS FOR UNIT TEST -IV

Spoilage and Wastage of Food & Food Preservation

ACTIVITY FOR FORMATIVE ASSESSMENT -II

- ❖ Holiday Home work (interdisciplinary)
- ❖ A Project Report on 'Forest, Products & their uses'

ACTIVITY FOR FORMATIVE ASSESSMENT -III

- ❖ MCQ
- ❖ Role Play on Solar System (group activity) / Information on Artificial Satellites & their functions (any 5)

Month	Chapter	Methodology / Activities		H.W	Assignments	Learning objectives / Values
F.A I April (20 days)	Plants	<ul style="list-style-type: none"> Students will be asked to grow monocot & dicot seeds in different conditions and observe germination of seeds for a week & complete the observation table. Visit to the school garden to know- Different varieties of plants. Methods of reproduction. Ways of seed dispersal 	Unit Test – 1 Plants	2	1	<ol style="list-style-type: none"> Understanding the plant growth at various times and recording the observations. Understanding the different ways of reproduction in plants. To learn about sowing of seeds and germination.
May (16 days)	Animals – Our Friends	<p>Collect pictures of extinct and endangered animals.</p> <ul style="list-style-type: none"> Some wild animals are hunted for trading. Collect information on such animals and mention their body parts used for trading. Discussion on the initiative taken by the Govt. and non-Govt. agencies for Wild Life conservation. 	Class test	1	1	<ol style="list-style-type: none"> Care & compassion for living organisms. Understanding the importance of animals. Understanding the role of man and organizations to conserve wild life. Understanding inter-relationship among plants, animals and humans.

Month	Chapter	Methodology /Activities		H.W. /Assignments	Learning objectives / Values
F.A - II July- (21 days)	Food	Discussion on - <ul style="list-style-type: none"> Balanced diet using a 'Food Pyramid'. Various types of deficiency diseases with their symptoms and causes. Healthy & unhealthy food habits 	Unit test-2 Food	1/1	1.To understand the importance of food, good health and hygiene. 2. Understanding the causes, symptoms and prevention of non-communicable diseases.
	Forests	Discussion on <ul style="list-style-type: none"> Underground water tanks in dwelling areas as an initiative towards water conservation. Soil Conservation. Students will bring forests products and their importance will be discussed in the class. Students will be divided into groups for activity. Each group will design at least 2 slogans on the topics 1.'Forest -our lifeline' 	FA-II 1. Holidays Home Work 2.Make a project on Forest products & their uses	1/1	1.Understanding the importance of forests. 2.Understanding the term deforestation. And it's causes. 3.Care and conservation of Natural Resources 4. Awareness
Aug (22 days)	My-body	2.Deforestation- its causes, effects, and prevention. <ul style="list-style-type: none"> To discuss respiratory process and skeleton system with the help of specimens/models/charts. Observing chest size during inhalation and exhalation process. Knowing various types of joints in human body by moving different body parts. 	OTBA (for practice)	1/1	1.Self awareness& lifelong learning 2.To understand the functioning of- respiratory system , skeleton system sense organs and joints
	Importance of water	<ul style="list-style-type: none"> Discussion on amazing senses in humans and animals. Importance of water in animal and plant life will be discussed - <ul style="list-style-type: none"> Different ways of supplying water at homes and school will be discussed 	Class test	1/1	1.Understanding the importance of water. 2. Care towards natural resources and their conservation.
Sept (5 days)	REVISION OF SA-I SYLLABUS				

SA - II

Month	Chapter	Methodology /Activities		H.W.	Assignments	Learning objectives / Values
F.A -III October (17 days)	Air	An activity will be performed to show how:- (a)Oxygen helps in burning. (b)The plants need air to live. • Nitrogen cycle will be discussed with the help of a chart. • Activities will be shown to the students to check the purity of air.	Unit Test - 3 Air	1	1	1.To learn how balance is maintained in atmosphere? 2.Understanding the importance of various components of air. 3. Understanding the air pollution , its causes and control measures.
Nov (21 days)	Our Solar System	Documentary on space.	F.A – III(Assessed) Role Play: I am a member of solar system.	1	1	1.Understanding the concept of heavenly bodies. 2.Understanding rotation & revolution of earth.
	Observing the sky (MCQ)	1.Students will observe theconstellations in the sky during night and would draw any 2 constellations. 2.Sky observation (day & night for 4-5 days)	2 MCQ a) Observing Sky b) Properties of Water	1	1	1.Observing the sky gives clarity about stars , constellation and planets.

Month	Chapter	Methodology / Activities		H.W.	Assignments	Learning objectives / Values
F.A -IV December 22days	Properties of water	Activities to study the properties of water like solubility, floating and sinking of substances and states of matter	MCQ	1	1	1.Understanding the properties of water. 2.Life long learning.
	Spoilage and wastage of food & food preservation	Visit to a Departmental store to observe how things are preserved? Note down the lists of ingredients mentioned on the pack /bottle of any one food item.	Unit Test -4 Spoilage and Wastage of food & food preservation	1	1	1.Valuing good health and hygiene 2.Understanding various techniques to preserve foods. 3. Understanding the term food poisoning and it's causes.
Jan (12 days)	Fuels	Fuel Classification & their comparative study. Students will visit any gas agency or a petrol pump or contact people nearby their house and will collect information on the type of fuel used, its usage, mileage cost and pollution level . etc.	Class Test F.A - IV Assignment, C.W & H.W will be assessed.	1	1	1.To familiarize students with various types of fuels and energy sources. 2. Understanding fuel economy. 3.usage and conservation of energy sources.

Note:

- **One notebook will be maintained for C.W. and H.W/ Assignment and it will be assessed by the teacher.**
- **Measures to enhance performance of bright students-**
 - HOTS questions
 - Application and skill based questions
 - Problem solving questions / situational questions
- **Remedial measures for below average students-**
 - Objective type questions
 - Very short answer type questions
 - Frequent oral and written test
- **The following chapters will be supported by PPT -**
 - Food
 - Importance of water
 - Our Solar System
 - Fuels