

YEAR PLAN 2018- 2019
Grade IV GENERAL SCIENCE

Name of the text book: Active Science
Publisher: Pearson India Education Services Pvt. Ltd

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

Session One: June 2018 to October 2018

Session Two: November 2018 to March 2019

Summative Assessment I: October 2018

Summative Assessment II: March 2019

General Objectives:

1. To learn about the environment by developing awareness of the environment in a holistic manner through various activities, skills and values.
2. Enhance curiosity and creativity in relation to the surroundings.
3. Develop sensitivity towards elderly, differently abled and disadvantaged groups of the society.

Project/field trip:

Summative Session I (June to October)

1. Prepare a booklet on insectivorous plants.

Summative Session II (November to March)

1. Prepare a Powerpoint presentation on pollution. [integrated with computer applications]

Session One: June 2018 to October 2018

Duration	Topic	Specific Learning Objectives	Activity	Suggested Learning Resources	Life skills
June	1.Food and Health	<ul style="list-style-type: none"> ➤ To know the various components of food required for healthy living. ➤ To understand the need for a balanced diet. ➤ To appreciate the need to cook food and to preserve it. ➤ Suggest various ways to avoid food wastage. 	<ul style="list-style-type: none"> • Revisiting concepts learnt in the earlier classes. • Providing opportunities to children to discuss components of food and their effects on health. • Find out diseases related to life style and ways to avoid them. • Hands on activities related to methods of preservation of food. 	<ul style="list-style-type: none"> ➤ Various samples of food items. ➤ Pictures/charts of different food items and their role. ➤ Charts /visuals on food items. ➤ Magazines describing more information on food items. ➤ Worksheets. 	Appreciate the value of avoiding wastage of food.
June- July	2.Digesting Food 3.Our Teeth and Microbes	<ul style="list-style-type: none"> ➤ Identify and name the different kinds of teeth in human beings. ➤ Infer why old people, adults and children have different number of teeth. ➤ Appreciate the importance of regular check-up of teeth. ➤ Relate healthy food habits with the development of healthy teeth and proper brushing. ➤ Identify various habits that help to keep the digestive system healthy. 	<ul style="list-style-type: none"> • Revisiting concepts learnt in the earlier classes. • Sketch pictures of different kinds of teeth and labelling them. • Drawing attention to the various organs in the model/chart of digestive system. • Discussing the importance of water in the process of digestion and excretion. • Quest Zone: Page-63 	<ul style="list-style-type: none"> ➤ Tooth brush, tongue cleaner. ➤ Pictures on the process of cleaning the teeth, tongue, etc. ➤ Pictures/charts of digestive systems. ➤ Models showing various organs of digestive systems. ➤ Discussion on junk and healthy food items. ➤ Multimedia (Extramarks) 	Healthy habit for a healthy living.
August	4.Plants as Living Beings	<ul style="list-style-type: none"> ➤ Discuss the need for adaptation in plants to 	<ul style="list-style-type: none"> • Revisiting concepts learnt in the earlier classes. • Creating situations to identify various 	<ul style="list-style-type: none"> ➤ Various kinds of leaves. ➤ Apparatus required for experiments on starch test. 	Sensitivity towards the environment.

	5.The Food Factory	<ul style="list-style-type: none"> ➤ survive in their habitat. ➤ Enlist reasons of adaptations in plants on land, water, desert and hilly areas. Give examples of plant adaptations on land, water, desert and hilly areas. ➤ Identify variations in leaves. ➤ Discuss the process of photosynthesis in one's own words. 	<ul style="list-style-type: none"> • plant having adaptations. • Showing various plants having adaptations. Assigning project work to prepare a booklet on adaptations in insectivorous plants. • TB, Page-14:Starch Test • TB, Page-19:Collect leaves of religious significance(tulsi, banana leaf .etc) 	<ul style="list-style-type: none"> ➤ Picture chart on unusual plants. 	
September	6.Matter	<ul style="list-style-type: none"> ➤ Distinguish and classify solids, liquids and gases based on their observable properties. ➤ Draw pictures of experiments that show the properties of each form. ➤ Explain uses of solids, liquids and gases in daily life. 	<ul style="list-style-type: none"> • Demonstrating the properties (through simple experiments) of solids, liquids and gases. • Conducting activities/experiments to observe forms of matter (ice, water and vapour.) • Role play-molecular arrangement in the three states of matter. • TB, Page-120: Activity on solubility 	<ul style="list-style-type: none"> ➤ Collection of soluble and insoluble substances. ➤ Apparatus to show making of a solution. 	Observation and simple experimentation.
Revision					
Session Two: November 2018 – March 2019					
November	6.Force, Work and Energy	<ul style="list-style-type: none"> ➤ Identify various kinds of forces seen in day-to-day life (muscular, gravitational, frictional, magnetic, etc) ➤ Explain each force in one's own words. ➤ Explain uses and harmful effects of friction in daily life. 	<ul style="list-style-type: none"> • Demonstrating various kinds of forces through simple activities. • Conducting experiments to demonstrate friction. • Creating situations to demonstrate friction on various kinds of surfaces. • Explain various forms of energy used in daily life. • Showing and discussing the simple machines used in day to day life. • TB, Page-134: Quest Zone 	<ul style="list-style-type: none"> ➤ Objects to demonstrate push and pull. ➤ Pictures of examples of push and pull in real life situations. ➤ Oil, powder and other objects that can illustrate friction. ➤ Different surfaces to demonstrate friction. 	Improvising, making simple things and performing simple experiments.
December- January	7.Our Environment	<ul style="list-style-type: none"> ➤ Give reasons why air is important for living beings. ➤ Discuss the causes of air pollution and suggest remedies to reduce air pollution in the environment. ➤ Discuss reasons for water impurities in the environment. ➤ Explain ways of water purification used at home and school. ➤ Develop awareness and sensitivity towards keeping public places clean. 	<ul style="list-style-type: none"> • Revisiting concepts learnt in the earlier classes. • Organizing group discussions to identify causes of air pollution, water pollution, land pollution and noise pollution. • Assigning projects (group work) to list down ways to prevent air pollution, water pollution, land pollution and noise pollution. • Discussing various ways to purify water at home and drawing pictures. • Encouraging children to write ways and slogans to save water. • Discuss how to reduce non-degradable garbage to keep the surroundings clean. 	<ul style="list-style-type: none"> ➤ Origami material ➤ Chart on the process of rainwater harvesting. ➤ Model of rainwater harvesting. ➤ Examples of degradable and non-degradable materials. 	Sensitivity towards natural resources and their conservation.

		<ul style="list-style-type: none"> ➤ Discuss how to reduce non-degradable garbage to keep the surroundings clean. ➤ Create slogans and demonstrate how to dispose-off garbage in the surroundings. 	<ul style="list-style-type: none"> • Videos on biodegradable and non-biodegradable wastes. • Collect newspaper cuttings on waste management. 		
	8. Animals as Living Beings	<ul style="list-style-type: none"> ➤ Discuss the need for adaptation in animals to survive in their different habitats. ➤ Relate modification of body parts in various animals due to food habits (herbivores, carnivores and omnivores) ➤ Give examples of herbivores, carnivores and omnivores. 	<ul style="list-style-type: none"> • Sharing the experiences related to adaptation in animals. • Group activity- making charts depicting adaptations in different animals. • Scrap book activity on adaptations in animals. 	<ul style="list-style-type: none"> ➤ Pictures of animals having adaptations. ➤ Flash cards ➤ Web maps of animals showing adaptations on land and water. ➤ Documentary film on adaptations in animals. ➤ Multimedia 	Care and concern for animals.
January - February	9. Air, Water and Weather	<ul style="list-style-type: none"> ➤ Give reasons why air is important for living beings. ➤ Appreciate the importance of water to living beings. 	<ul style="list-style-type: none"> • Demonstrate the process of breathing and deep breathing for healthy living. (mindful breathing) • Drawing and labeling the diagrams on land and sea breeze. • Make a model of simple water filter. 	<ul style="list-style-type: none"> ➤ Drawings on different methods of water purification. ➤ Model/ chart of rainwater harvesting. ➤ Simple apparatus to demonstrate water purification. ➤ Multimedia 	Sensitivity towards the environment.
February - Revision					

Web Ref: www.schoolhouserocks.com
www.magicschoolbus.com
www.youtube-makemegenius.com