

YEAR PLAN 2018- 2019
Grade V GENERAL SCIENCE

Name of the text book: Active Science
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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 report on Global Warming, its causes and impact on environment.
Suggest ways to reduce the consequences of the same.

Summative Session II (November to March)

1. Make a model of a simple machine using recycled material.
2. Conduct a survey to check the cleanliness in different areas like the corridors, playground, toilets etc in your school. Prepare a report.

Session One: June 2018 to October 2018

Duration	Topic	Specific Learning Objectives	Activity	Suggested Learning Resources	Life skills
June- July	1. Skeletal System and Muscular System	<ul style="list-style-type: none"> ➤ Identify major bones of the human body and name them. ➤ Locate major joints of the human body and discuss their functions. ➤ Following simple exercises to make bones and muscles strong. ➤ Demonstrate correct posture to keep body healthy and strong both in sitting/standing positions. 	<ul style="list-style-type: none"> • Revisiting concepts learnt in the earlier classes. • Providing opportunities to children to share and discuss information related to the theme. • Giving opportunities to observe models of different kinds of joints and demonstrate how they work. • Making drawings of joints. • Demonstrating simple physical exercises to improve body posture. • Initiating discussions related to improving body health. 	<ul style="list-style-type: none"> ➤ Model of a human skeleton. ➤ Charts/models showing bones and joints. ➤ Chart showing the steps of Surya Namaskar. 	Yoga for healthy mind and body.
July	2. Circulatory System	<ul style="list-style-type: none"> ➤ Identify the organs of the circulatory system and describe the function of each organ in the system. ➤ Do yogic exercises to keep the body strong and healthy. 	<ul style="list-style-type: none"> • Providing opportunities to children to observe various organs related to the circulatory system. • Drawing and labeling the human heart. • Performing simple Asanas to show deep breathing pranayama and making them follow the same. • Demonstrate the methods to check heartbeat and pulse. 	<ul style="list-style-type: none"> ➤ Diagrams of circulatory and excretory systems. ➤ Articles on the importance of yoga. ➤ Exercise for healthy heart and body. ➤ Videos 	Healthy habit for healthy living.
August-September	3. States of Matter	<ul style="list-style-type: none"> ➤ State the properties of solids, liquids and gases through simple activities. 	<ul style="list-style-type: none"> • Revisiting the concepts. • Building on previous learning. 	<ul style="list-style-type: none"> ➤ Apparatus for conducting simple 	Identifying

		<ul style="list-style-type: none"> ➤ Explain why ventilators and windows are needed in buildings. ➤ Relate the use of fans, air conditioners and coolers in different seasons. 	<ul style="list-style-type: none"> • Role play on molecular arrangement in different states of matter. • Demonstrating the solubility of different substances. • Discussing the properties of physical and chemical changes; relating it to real life situations. • TB, Page-136, Quest Zone. 	<ul style="list-style-type: none"> ➤ experiments. ➤ Charts showing the molecular arrangement in solids, liquids and gases. ➤ Worksheets 	objects based on observable features. Experimentation.
	4. Air and Water	<ul style="list-style-type: none"> ➤ Give reason why atmosphere is important for existence of life. ➤ To understand the composition and properties of air. ➤ Discuss the reasons for the presence and type of impurities in water. ➤ Explain ways of water purification. ➤ Suggest ways to conserve water. 	<ul style="list-style-type: none"> • Revisiting concepts learnt in the earlier classes. • Demonstration of some hands-on activities to understand the properties of air. • Demonstrating different ways of purification of water. • Appreciating the method of rainwater harvesting through discussions. • TB, Page-81, Quest Zone and Subject Connect. 	<ul style="list-style-type: none"> ➤ Chart/picture of rainwater harvesting. ➤ Video ➤ Apparatus to conduct experiments on properties of air and purification of water. ➤ Video on rain water harvesting, cloud seeding. 	Sensitivity towards environment (saving water).
September	Revision	Session Two: October 2018 - March 2019			
October- November	5. Force, Energy and Simple Machines	<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. ➤ Appreciate the discovery and use of simple machine in daily life. ➤ Classify simple machines based on their working principles. ➤ Conduct simple experiments/activities to demonstrate how simple machines function. 	<ul style="list-style-type: none"> • Relating the theme to body parts acting as levers. (joints) • Conducting activities to identify different kind of machines and classify them. • Collecting pictures of different kinds of simple machines. • Assigning project work to make model of a simple machine using recycled material. 	<ul style="list-style-type: none"> ➤ Pictures ➤ Flash cards ➤ Various kinds of simple machine used in daily life. ➤ 	Improvising, making simple things and performing simple experiments.
November- December	6. Good Health	<ul style="list-style-type: none"> ➤ Give reasons for the need of a balanced diet. ➤ Give reasons for some deficiency diseases and find out ways to prevent them. ➤ State symptoms of some lifestyle diseases and suggest ways to avoid them. ➤ Demonstrate correct posture and follow simple exercises to keep body healthy and strong. ➤ Identify the role of microbes in our day to day life. ➤ Identify the causes of diseases which occur due to unclean surroundings and personal hygiene. ➤ Develop awareness and sensitivity towards keeping public places clean. 	<ul style="list-style-type: none"> • Revisiting the concepts. • Building on previous learning. • Discussing diseases related to life style, deficiency of food components and ways to avoid them. • Organizing simple activities to classify junk and healthy food. • Collect information on endemic diseases in India (any 3) • Assigning project work on various health issues (dengue fever, H1N1, obesity etc). 	<ul style="list-style-type: none"> ➤ Specimens of various food items. ➤ Materials /pictures on various deficiency diseases. ➤ Video ➤ Worksheets ➤ Natural material used for cleanliness. ➤ Posters on communicable diseases. ➤ Worksheets and quizzes. 	Healthy habit for a healthy living. Making cleanliness as a regular practice.

January-February	7. Plants	<ul style="list-style-type: none"> ➤ Identify various parts through which vegetative reproduction takes place and give examples. ➤ Draw and label the male and female reproductive parts of a flower. ➤ Relate the need of the pollination for plants. ➤ Discuss the significance and kinds of seed dispersal. 	<ul style="list-style-type: none"> • Conducting simple activities to observe vegetative reproduction. • Draw picture of a seed and label the parts. • Collecting different seeds and their classification based on dispersal method. • Video/picture of pollination. 	<ul style="list-style-type: none"> ➤ Flowers with androecium and gynoecium. ➤ Collection of different kinds of seeds. ➤ Plants having vegetative reproduction. ➤ Videos on plant reproduction. 	Concern for the environment.
	8. The Moon	<ul style="list-style-type: none"> ➤ Recognize the different phases of the moon. ➤ Explain the phenomenon of solar and lunar eclipses. 	<ul style="list-style-type: none"> • Revisiting concepts learnt in the earlier classes. • Demonstrating through simple experiments and diagrams how solar and lunar eclipses are formed. • TB, Page- 89, Quest Zone and Subject Connect. 	<ul style="list-style-type: none"> ➤ Demonstration to show solar and lunar eclipses. ➤ Videos on eclipses. 	Develops curiosity towards the variations related to the immediate surroundings.
February - Revision					

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