

Annual Syllabus
Session: 2023-2024
Class-VIII
Subject: SCIENCE

Chapter No. and Name	Content and its mapping with previous classes	Learning Outcomes	Suggested Activities
FOOD	<p>Class VI</p> <p><u>CH-9: Living organisms and their surroundings</u></p> <ul style="list-style-type: none"> • Characteristics of the living beings. <p>Class VII</p> <p><u>Ch-1: Nutrition in Plants</u></p> <ul style="list-style-type: none"> • Saprotrophs. • How nutrients are replenished in the soil. <p>Class VIII</p> <p><u>Ch-2 Microorganisms : Friends And Foe:</u></p> <ul style="list-style-type: none"> ❖ Microorganisms ❖ Major groups of microorganisms and their living place ❖ Microorganisms and us ❖ Harmful Microorganisms ❖ Food Preservation ❖ Nitrogen Fixation ❖ Nitrogen cycle 	<ul style="list-style-type: none"> • Identify different types of microorganisms (both unicellular and multicellular) • Classify useful and harmful microorganisms. • Explore the role of micro organisms in life. • Asks questions and lead to investigations like how do vegetables or food items get spoiled. • Investigate various diseases caused by microorganisms. • Apply learning of scientific concepts in daily life (what helps in making curd ? how does food go bad ?etc.) • Investigate the use of salt and sugar in preserving pickles and jams. 	<ol style="list-style-type: none"> 1. To observe drops of pond water, curd, bread mould, under microscope. 2. Observe the permanent slides of Microorganisms. 3. An experiment to collect the gas (evolved from the fermentation in wheat flour -Increased volume of wheat flour by yeast)- in a balloon and pass it through lime water. 4. Pull out a gram/bean plant from the field and to study its root nodules. <p><i>VI-Refer to worksheet no.25-27.</i></p> <p><i>VII-Refer to worksheet no.12-13.</i></p> <p><i>VIII:- Refer to worksheet no. 02-13, 23-24</i></p>
MATERIAL	<p>CLASS-VI</p> <p><u>CH-2: Components of food</u></p> <p>Test for starch, protein and Fat. (process)</p> <p>CLASS-VII</p> <p><u>Ch- 5: Acids, Bases and Salts</u></p>	<ul style="list-style-type: none"> • Identify and classify materials as metal and non-metals on the basis of their properties. • Write word equation for chemical reactions eg. Reactions of metals and Nonmetals with air ,water , acids and bases . • Apply learning of scientific concepts in day to day 	<ol style="list-style-type: none"> 1. To study the physical properties of metals and non-metals (NCERT Table 4.1 & 4.2) 2. To study the nature of oxides of metals and non-metals. 3. To study displacement reaction.

	<ul style="list-style-type: none"> ❖ Acids and Bases ❖ Natural Indicators around us <p>Neutralisation</p> <p><u>CLASS-VIII</u></p> <p><u>CH-4 Materials : Metals and Non-Metals</u></p> <ul style="list-style-type: none"> ❖ Physical properties of metals and non-metals ❖ Chemical properties of metals and non-metals ❖ Reaction with oxygen, water acids and bases ❖ Displacement reaction ❖ Uses of metals and non-metals. 	<p>life using appropriate metals and non-metals for various purposes.</p> <ul style="list-style-type: none"> • To explore the answer of various questions-like why the ringing bells are not made up of wood. • Differentiate between metals and non metals on the bases of observations of their physical and chemical properties, 	<p>4. Reaction of metals and non-metals with acids .</p> <p>VI- <i>Refer to worksheet no.3-5</i></p> <p>VII- <i>Refer to worksheet n.14-17.</i></p> <p>VIII:-<i>Refer to worksheet no.14-22</i></p>
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➤ The above content must be completed by 30th September 2023.

➤ Revision of syllabus for Mid Term Examination.

Note: (Specify, if needed) The above said syllabus is for assessment purpose only and remaining topics/chapters may be taught as Subject Learning Enrichment.

MID TERM EXAMINATION

Chapter Name	Content and its mapping with previous classes	Learning Outcomes	Suggested Activities
HOW THINGS WORK	<p><u>CLASS-VI</u></p> <p><u>*CH – 11: Light Shadows and Reflection</u></p> <ul style="list-style-type: none"> • Transparent, opaque and translucent objects • What exactly are shadows? • A pinhole camera. <p>Mirrors and reflections</p> <p><u>CLASS-VII</u></p> <p><u>* Ch-15: Light</u></p> <ul style="list-style-type: none"> ❖ Light travels along a straight line ❖ Reflection of light. ❖ Right or left, playing with spherical mirrors. ❖ Images formed by lenses. ❖ Sunlight white or coloured. 	<ul style="list-style-type: none"> • To differentiate between regular and irregular reflection. • To identify the characteristics of the image formed by a plane mirror. • Conduct simple investigations to verify the laws of reflection. • Explain the process of the formation of multiple images, by experimentation. 	<ol style="list-style-type: none"> 1.To verify laws of reflection of light with the help of a ray of light and a mirror. 2.To identify the reflected image with the help of a plane glass and a lighted candle. 3.To observe an object through a straight and bent pipe. 4.To observe the formation of multiple images by mirrors with each other at different angles. 5.To study the structure of eye with the help of a chart/model. 6.To make your own Kaleidoscope.

	<u>CLASS-VIII</u> <u>CH-16 Light</u> <ul style="list-style-type: none"> ❖ What makes things visible ❖ Laws of reflection, ❖ Regular and diffused reflection multiple reflection ❖ Reflected light can be reflected again. ❖ Multiple Images ❖ Sunlight-,white or coloured, ❖ What is inside Our Eyes? ❖ (human eye-structure and function) ❖ Care of the Eyes ❖ Visually challenged persons can read and write. ❖ What is the Braille system? 	<ul style="list-style-type: none"> • Explain with the help of self drawn labeled diagram the structure of eye. 	VI:- <i>Refer to worksheet no.16-19.</i> VII:- <i>Refer to worksheet no.26-31</i> VIII:- <i>Refer to worksheet no.25-33</i>
<p>➤ The whole syllabus must be completed by 31 January, 2024.</p> <p>➤ Revision of syllabus for Annual Examination.</p> <p>➤ Annual syllabus will be based on whole annual syllabus.</p> <p>Note: The above said syllabus is for assessment purpose only and remaining topics/chapters may be taught as Subject Learning Enrichment.</p>			
ANNUAL EXAMINATION			