

PHASE 1			
Ch. No.	Chapter Name	Subtopics	PT1 portion Total Marks: 20      Duration: 45 minutes
1	Resemblance	<ul style="list-style-type: none"> <li>▪ What is resemblance?               <ul style="list-style-type: none"> <li>○ Relatives</li> <li>○ Twins</li> </ul> </li> <li>▪ Similarities and Dissimilarities               <ul style="list-style-type: none"> <li>○ Height</li> <li>○ Weight</li> <li>○ Body type/structure/size</li> <li>○ Hair</li> <li>○ Eyes</li> <li>○ Nose</li> </ul> </li> <li>▪ Role of environment</li> </ul>	<ul style="list-style-type: none"> <li>▪ What is resemblance?               <ul style="list-style-type: none"> <li>○ Relatives</li> <li>○ Twins</li> </ul> </li> <li>▪ Similarities and Dissimilarities               <ul style="list-style-type: none"> <li>○ Height</li> <li>○ Weight</li> <li>○ Body type/structure/size</li> <li>○ Hair</li> <li>○ Eyes</li> <li>○ Nose</li> </ul> </li> <li>▪ Role of environment</li> </ul>
2	Need a Place, Need a Job	<ul style="list-style-type: none"> <li>▪ Need for money</li> <li>▪ Family life and lifestyle</li> <li>▪ Dreams and aspirations</li> <li>▪ Debts and loans</li> </ul>	<ul style="list-style-type: none"> <li>▪ Need for money</li> <li>▪ Family life and lifestyle</li> <li>▪ Dreams and aspirations</li> <li>▪ Debts and loans</li> </ul>
3	Communities on the Move	<ul style="list-style-type: none"> <li>▪ The farming community</li> <li>▪ Living on loans</li> <li>▪ Working in sugarcane fields</li> <li>▪ Staying away from family</li> <li>▪ The hope continues</li> </ul>	-
4	Dignity of Labour	<ul style="list-style-type: none"> <li>▪ Types of jobs</li> <li>▪ White collar and blue collar jobs</li> <li>▪ Dignity of labour</li> </ul>	<ul style="list-style-type: none"> <li>▪ Types of jobs</li> <li>▪ White collar and blue collar jobs</li> <li>▪ Dignity of labour</li> </ul>
5	Natural Disasters	<ul style="list-style-type: none"> <li>▪ Earthquake</li> <li>▪ Cyclone</li> <li>▪ Flood</li> <li>▪ Drought</li> <li>▪ Tsunami</li> <li>▪ Aid for victims               <ul style="list-style-type: none"> <li>○ First Aid</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▪ Earthquake</li> <li>▪ Cyclone</li> <li>▪ Flood</li> <li>▪ Drought</li> <li>▪ Tsunami</li> <li>▪ Aid for victims               <ul style="list-style-type: none"> <li>○ First Aid</li> </ul> </li> </ul>

PHASE 2			
Ch. No.	Chapter Name	Subtopics	<div> <div>HYE portion</div> <div> <b>Total Marks: 50</b> <b>Duration: 2 hours</b> </div> </div>
6	All About Breathing	<ul style="list-style-type: none"> <li>How do we breathe?</li> <li>Expansion and contraction of chest</li> <li>Blowing air</li> </ul>	<ul style="list-style-type: none"> <li>How do we breathe?</li> <li>Expansion and contraction of chest</li> <li>Blowing air</li> </ul>
7	Diseases	<ul style="list-style-type: none"> <li>Causes of malaria</li> <li>Precautions</li> <li>The story of Ronald Ross</li> <li>Medicines for malaria</li> <li>Symptoms of anaemia</li> <li>Food that helps fight anaemia</li> </ul>	<ul style="list-style-type: none"> <li>Causes of malaria</li> <li>Precautions</li> <li>The story of Ronald Ross</li> <li>Medicines for malaria</li> <li>Symptoms of anaemia</li> <li>Food that helps fight anaemia</li> </ul>
8	Super Senses of Animals	<ul style="list-style-type: none"> <li>Comparison between human and animal senses</li> <li>The nose that smells</li> <li>The eyes that see</li> <li>The ears that hear</li> </ul>	<ul style="list-style-type: none"> <li>Comparison between human and animal senses</li> <li>The nose that smells</li> <li>The eyes that see</li> <li>The ears that hear</li> </ul>
10	Conservation of Animals	<ul style="list-style-type: none"> <li>Endangered animals</li> <li>Using animals for trade</li> <li>Animal products</li> <li>Destruction of forests</li> </ul>	<ul style="list-style-type: none"> <li>Endangered animals</li> <li>Using animals for trade</li> <li>Animal products</li> <li>Destruction of forests</li> </ul>
11	Team Spirit in Sports	<ul style="list-style-type: none"> <li>Importance of team spirit</li> <li>Role of a team leader or a coach</li> <li>Gender stereotyping in sports</li> </ul>	

PHASE 3			
Ch. No.	Chapter Name	Subtopics	PT2 portion Total Marks: 20      Duration: 45 minutes
12	Simple Machines	<ul style="list-style-type: none"> <li>▪ Lever               <ul style="list-style-type: none"> <li>○ Lever of the first order</li> <li>○ Lever of the second order</li> <li>○ Lever of the third order</li> </ul> </li> <li>▪ Wheel and axle</li> <li>▪ Pulley</li> <li>▪ Inclined plane</li> <li>▪ Screw</li> <li>▪ Wedge</li> </ul>	<ul style="list-style-type: none"> <li>▪ Lever               <ul style="list-style-type: none"> <li>○ Lever of the first order</li> <li>○ Lever of the second order</li> <li>○ Lever of the third order</li> </ul> </li> <li>▪ Wheel and axle</li> <li>▪ Pulley</li> <li>▪ Inclined plane</li> <li>▪ Screw</li> <li>▪ Wedge</li> </ul>
13	Plants and Seeds	<ul style="list-style-type: none"> <li>▪ Seed germination</li> <li>▪ Structure of a seed</li> <li>▪ Methods of seed dispersal               <ul style="list-style-type: none"> <li>○ By wind</li> <li>○ By explosion</li> <li>○ By water</li> <li>○ By humans</li> <li>○ By animals</li> </ul> </li> <li>▪ Insectivorous plants</li> </ul>	<ul style="list-style-type: none"> <li>▪ Seed germination</li> <li>▪ Structure of a seed</li> <li>▪ Methods of seed dispersal               <ul style="list-style-type: none"> <li>○ By wind</li> <li>○ By explosion</li> <li>○ By water</li> <li>○ By humans</li> <li>○ By animals</li> </ul> </li> <li>▪ Insectivorous plants</li> </ul>
14	Sound	<ul style="list-style-type: none"> <li>▪ Types of sound               <ul style="list-style-type: none"> <li>○ Infrasonic sound</li> <li>○ Audible range of sound</li> <li>○ Ultrasonic sound</li> </ul> </li> <li>▪ Reflection of sound               <ul style="list-style-type: none"> <li>○ Good and bad reflectors</li> <li>○ Echoes</li> </ul> </li> <li>▪ Characteristic of sound               <ul style="list-style-type: none"> <li>○ Pitch</li> <li>○ Loudness</li> <li>○ Quality and timbre</li> </ul> </li> <li>▪ Noise pollution</li> </ul>	<ul style="list-style-type: none"> <li>▪ Types of sound               <ul style="list-style-type: none"> <li>○ Infrasonic sound</li> <li>○ Audible range of sound</li> <li>○ Ultrasonic sound</li> </ul> </li> <li>▪ Reflection of sound               <ul style="list-style-type: none"> <li>○ Good and bad reflectors</li> <li>○ Echoes</li> </ul> </li> <li>▪ Characteristic of sound               <ul style="list-style-type: none"> <li>○ Pitch</li> <li>○ Loudness</li> <li>○ Quality and timbre</li> </ul> </li> <li>▪ Noise pollution</li> </ul>
15	Food Preservation	<ul style="list-style-type: none"> <li>▪ What is spoilt food?</li> <li>▪ Things to observe</li> <li>▪ Preserving food</li> <li>▪ How are pickles made?</li> </ul>	<ul style="list-style-type: none"> <li>▪ What is spoilt food?</li> <li>▪ Things to observe</li> <li>▪ Preserving food</li> <li>▪ How are pickles made?</li> </ul>



PHASE 4			
Ch. No.	Chapter Name	Subtopics	YE portion Total Marks: 50      Duration: 2 hours
16	How We Taste and Digest Food	<ul style="list-style-type: none"> <li>How do we taste food?</li> <li>Different kinds of taste</li> <li>Importance of chewing in digestion</li> <li>Glucose</li> <li>Importance of eating healthy</li> </ul>	<ul style="list-style-type: none"> <li>How do we taste food?</li> <li>Different kinds of taste</li> <li>Importance of chewing in digestion</li> <li>Glucose</li> <li>Importance of eating healthy</li> </ul>
17	Every Drop of Water Counts	<ul style="list-style-type: none"> <li>Ancient times</li> <li>Baolis or step wells</li> <li>Dug wells and Tube wells</li> <li>Electric pumps, tanks and taps</li> <li>Unequal distribution</li> <li>What is irrigation?</li> <li>Methods of irrigation</li> <li>Holy water</li> </ul>	<ul style="list-style-type: none"> <li>Ancient times</li> <li>Baolis or step wells</li> <li>Dug wells and Tube wells</li> <li>Electric pumps, tanks and taps</li> <li>Unequal distribution</li> <li>What is irrigation?</li> <li>Methods of irrigation</li> <li>Holy water</li> </ul>
18	Experimenting with Water	<ul style="list-style-type: none"> <li>What floats, sinks or mixes in water?               <ul style="list-style-type: none"> <li>Oil and water</li> </ul> </li> <li>Solubility of water</li> <li>Evaporation of water</li> <li>How is salt made?</li> <li>Dandi March/ Yatra</li> </ul>	<ul style="list-style-type: none"> <li>What floats, sinks or mixes in water?               <ul style="list-style-type: none"> <li>Oil and water</li> </ul> </li> <li>Solubility of water</li> <li>Evaporation of water</li> <li>How is salt made?</li> <li>Dandi March/ Yatra</li> </ul>
19	Fuels	<ul style="list-style-type: none"> <li>Uses and types of fuel</li> <li>Renewable and non-renewable sources of energy</li> <li>Petrol and Diesel</li> <li>Saving fuel</li> </ul>	<ul style="list-style-type: none"> <li>Uses and types of fuel</li> <li>Renewable and non-renewable sources of energy</li> <li>Petrol and Diesel</li> <li>Saving fuel</li> </ul>
20	Matter	<ul style="list-style-type: none"> <li>What is matter?               <ul style="list-style-type: none"> <li>Arrangement of molecules in matter                   <ul style="list-style-type: none"> <li>✓ Solids</li> <li>✓ Liquids</li> <li>✓ Gases</li> </ul> </li> </ul> </li> <li>Change in the state</li> <li>Properties of matter               <ul style="list-style-type: none"> <li>Expansion and contraction</li> <li>Malleability</li> <li>Ductility</li> <li>Solubility</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>What is matter?               <ul style="list-style-type: none"> <li>Arrangement of molecules in matter                   <ul style="list-style-type: none"> <li>✓ Solids</li> <li>✓ Liquids</li> <li>✓ Gases</li> </ul> </li> </ul> </li> <li>Change in the state</li> <li>Properties of matter               <ul style="list-style-type: none"> <li>Expansion and contraction</li> <li>Malleability</li> <li>Ductility</li> <li>Solubility</li> </ul> </li> </ul>

		<ul style="list-style-type: none"> <li>○ Heat and electrical conductivity</li> <li>○ Diffusion</li> <li>○ Compressibility</li> </ul>	<ul style="list-style-type: none"> <li>○ Heat and electrical conductivity</li> <li>○ Diffusion</li> <li>○ Compressibility</li> </ul>
21	Force, Work and Energy	<ul style="list-style-type: none"> <li>▪ Types of forces <ul style="list-style-type: none"> <li>○ Frictional force</li> <li>○ Gravitational force</li> <li>○ Magnetic force</li> <li>○ Electrostatic force</li> </ul> </li> <li>▪ Work</li> <li>▪ Energy <ul style="list-style-type: none"> <li>○ Biomass energy</li> <li>○ Geothermal energy</li> <li>○ Tidal energy</li> <li>○ Energy from fossil fuels</li> <li>○ Nuclear energy</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▪ Types of forces <ul style="list-style-type: none"> <li>○ Frictional force</li> <li>○ Gravitational force</li> <li>○ Magnetic force</li> <li>○ Electrostatic force</li> </ul> </li> <li>▪ Work</li> <li>▪ Energy <ul style="list-style-type: none"> <li>○ Biomass energy</li> <li>○ Geothermal energy</li> <li>○ Tidal energy</li> <li>○ Energy from fossil fuels</li> <li>○ Nuclear energy</li> </ul> </li> </ul>