

**SYLLABUS INDICATOR AND EXAM PORTION  
CBSE – 2024-25**

**Subject: Science**

**Grade: VII**

<b>PHASE 1</b>			
<b>Ch. No.</b>	<b>Chapter Name</b>	<b>Subtopics</b>	<b>PT1 portion</b> <b>Total Marks: 40      Duration: 1 hour 30 minutes</b>
1	Nutrition in Plants	<ul style="list-style-type: none"> <li>▪ Mode of nutrition in plants</li> <li>▪ Photosynthesis- Food making process in plants</li> <li>▪ Other modes of nutrition in plants</li> <li>▪ Saprotrophs</li> <li>▪ How nutrients are replenished in the soil</li> </ul>	<ul style="list-style-type: none"> <li>▪ Mode of nutrition in plants</li> <li>▪ Photosynthesis- Food making process in plants</li> <li>▪ Other modes of nutrition in plants</li> <li>▪ Saprotrophs</li> <li>▪ How nutrients are replenished in the soil</li> </ul>
3	Heat	<ul style="list-style-type: none"> <li>▪ Hot and cold</li> <li>▪ Measuring temperature</li> <li>▪ Laboratory thermometer</li> <li>▪ Transfer of heat</li> <li>▪ Kinds of clothes we wear in summer and winter</li> </ul>	<ul style="list-style-type: none"> <li>▪ Hot and cold</li> <li>▪ Measuring temperature</li> <li>▪ Laboratory thermometer</li> <li>▪ Transfer of heat</li> <li>▪ Kinds of clothes we wear in summer and winter</li> </ul>
9	Motion and Time	<ul style="list-style-type: none"> <li>▪ Slow or fast</li> <li>▪ Speed</li> <li>▪ Measurement of time</li> <li>▪ Measuring speed</li> <li>▪ Distance- Time graph</li> </ul>	<ul style="list-style-type: none"> <li>▪ Slow or fast</li> <li>▪ Speed</li> <li>▪ Measurement of time</li> <li>▪ Measuring speed</li> <li>▪ Distance- Time graph</li> </ul>

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PHASE 2			
Ch. No.	Chapter Name	Subtopics	HYE portion Total Marks: 80      Duration: 3 hours
			<b>PT1 portion is included</b>
2	Nutrition in Animals	<ul style="list-style-type: none"> <li>▪ Different ways of taking food</li> <li>▪ Digestion in humans</li> <li>▪ Digestion in grass-eating animals</li> <li>▪ Feeding and digestion in amoeba</li> </ul>	<ul style="list-style-type: none"> <li>▪ Different ways of taking food</li> <li>▪ Digestion in humans</li> <li>▪ Digestion in grass-eating animals</li> <li>▪ Feeding and digestion in amoeba</li> </ul>
5	Physical and Chemical Changes	<ul style="list-style-type: none"> <li>▪ Physical change</li> <li>▪ Chemical change</li> <li>▪ Rusting of iron</li> <li>▪ Crystallisation</li> </ul>	<ul style="list-style-type: none"> <li>▪ Physical change</li> <li>▪ Chemical change</li> <li>▪ Rusting of iron</li> <li>▪ Crystallisation</li> </ul>
10	Electric Current and its Effects	<ul style="list-style-type: none"> <li>▪ Symbols of electric components</li> <li>▪ Heating effect of electric current</li> <li>▪ Magnetic effect of electric current</li> <li>▪ Electromagnet</li> <li>▪ Electric bell</li> </ul>	<ul style="list-style-type: none"> <li>▪ Symbols of electric components</li> <li>▪ Heating effect of electric current</li> <li>▪ Magnetic effect of electric current</li> <li>▪ Electromagnet</li> <li>▪ Electric bell</li> </ul>

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<b>PHASE 3</b>			
<b>Ch. No.</b>	<b>Chapter Name</b>	<b>Subtopics</b>	<b>PT2 portion</b> <b>Total Marks: 40</b> <b>Duration: 1 hour 30 minutes</b>
4	Acids, Bases and Salts	<ul style="list-style-type: none"> <li>• Acids and Bases</li> <li>• Natural indicators around us</li> <li>• Neutralisation</li> <li>• Neutralisation in everyday life</li> </ul>	<ul style="list-style-type: none"> <li>• Acids and Bases</li> <li>• Natural indicators around us</li> <li>• Neutralisation</li> <li>• Neutralisation in everyday life</li> </ul>
6	Respiration in Organisms	<ul style="list-style-type: none"> <li>▪ Why do we respire?</li> <li>▪ Breathing</li> <li>▪ How do we breathe?</li> <li>▪ What do we breathe out?</li> <li>▪ Breathing in other animals</li> <li>▪ Breathing under water</li> <li>▪ Do plants also respire?</li> </ul>	<ul style="list-style-type: none"> <li>▪ Why do we respire?</li> <li>▪ Breathing</li> <li>▪ How do we breathe?</li> <li>▪ What do we breathe out?</li> <li>▪ Breathing in other animals</li> <li>▪ Breathing under water</li> <li>▪ Do plants also respire?</li> </ul>

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PHASE 4			
Ch. No.	Chapter Name	Subtopics	YE portion Total Marks: 80 Duration: 3 hours
			<b>PT2 portion is included</b> <b>Chapters included from Term 1 are:</b> <ul style="list-style-type: none"> <li>• Chapter 2: Nutrition in Animals</li> <li>• Chapter 10: Electric Current and its Effects</li> </ul>
7	Transportation in Animals and Plants	<ul style="list-style-type: none"> <li>▪ Circulatory system</li> <li>▪ Excretion in animals</li> <li>▪ Transport of substances in plants</li> </ul>	<ul style="list-style-type: none"> <li>▪ Circulatory system</li> <li>▪ Excretion in animals</li> <li>▪ Transport of substances in plants</li> </ul>
8	Reproduction in Plants	<ul style="list-style-type: none"> <li>▪ Modes of reproduction               <ul style="list-style-type: none"> <li>○ Asexual reproduction                   <ul style="list-style-type: none"> <li>▪ Vegetative propagation</li> <li>▪ Budding</li> <li>▪ Fragmentation</li> <li>▪ Spore formation</li> </ul> </li> <li>○ Sexual reproduction                   <ul style="list-style-type: none"> <li>▪ Pollination</li> <li>▪ Fertilisation</li> </ul> </li> </ul> </li> <li>▪ Fruits and seed formation</li> <li>▪ Seed dispersal</li> </ul>	<ul style="list-style-type: none"> <li>• Modes of reproduction               <ul style="list-style-type: none"> <li>○ Asexual reproduction                   <ul style="list-style-type: none"> <li>▪ Vegetative propagation</li> <li>▪ Budding</li> <li>▪ Fragmentation</li> <li>▪ Spore formation</li> </ul> </li> <li>○ Sexual reproduction                   <ul style="list-style-type: none"> <li>▪ Pollination</li> <li>▪ Fertilisation</li> </ul> </li> </ul> </li> <li>• Fruits and seed formation</li> <li>▪ Seed dispersal</li> </ul>
11	Light	<ul style="list-style-type: none"> <li>▪ Light travels along a straight line</li> <li>▪ Reflection of light</li> <li>▪ Right or left</li> <li>▪ Playing with spherical mirrors</li> <li>▪ Images formed by lenses</li> <li>▪ Sunlight- white or coloured?</li> </ul>	<ul style="list-style-type: none"> <li>▪ Light travels along a straight line</li> <li>▪ Reflection of light</li> <li>▪ Right or left</li> <li>▪ Playing with spherical mirrors</li> <li>▪ Images formed by lenses</li> <li>▪ Sunlight- white or coloured?</li> </ul>
12	Forest: Our Lifeline	<ul style="list-style-type: none"> <li>▪ Visit to a forest</li> </ul>	<ul style="list-style-type: none"> <li>▪ Visit to a forest</li> </ul>
13	Wastewater Story	<ul style="list-style-type: none"> <li>▪ Water, our lifeline</li> <li>▪ What is sewage?</li> </ul>	<ul style="list-style-type: none"> <li>▪ Water, our lifeline</li> <li>▪ What is sewage?</li> </ul>

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		<ul style="list-style-type: none"> <li>▪ Water freshens up- an eventful journey</li> <li>▪ Wastewater treatment plant</li> <li>▪ Better house keeping practices</li> <li>▪ Sanitation and disease</li> <li>▪ Alternative arrangement for sewage disposal</li> <li>▪ Sanitation at public places</li> </ul>	<ul style="list-style-type: none"> <li>▪ Water freshens up- an eventful journey</li> <li>▪ Wastewater treatment plant</li> <li>▪ Better house keeping practices</li> <li>▪ Sanitation and disease</li> <li>▪ Alternative arrangement for sewage disposal</li> <li>▪ Sanitation at public places</li> </ul>
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