

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

**Subject: Science**

**Grade: VIII**

<b>PHASE 1</b>			
<b>Ch. No.</b>	<b>Chapter Name</b>	<b>Subtopics</b>	<b>PT1 portion</b> <b>Total Marks: 40</b> <b>Duration: 1 hour 30 minutes</b>
1	Crop Production and Management	<ul style="list-style-type: none"> <li>▪ Agricultural practices</li> <li>▪ Basic practices of crop production</li> <li>▪ Preparation of soil</li> <li>▪ Sowing</li> <li>▪ Adding manure and fertilisers</li> <li>▪ Irrigation</li> <li>▪ Protection from weeds</li> <li>▪ Harvesting</li> <li>▪ Storage</li> <li>▪ Food from animals</li> </ul>	<ul style="list-style-type: none"> <li>▪ Agricultural practices</li> <li>▪ Basic practices of crop production</li> <li>▪ Preparation of soil</li> <li>▪ Sowing</li> <li>▪ Adding manure and fertilisers</li> <li>▪ Irrigation</li> <li>▪ Protection from weeds</li> <li>▪ Harvesting</li> <li>▪ Storage</li> <li>▪ Food from animals</li> </ul>
2	Microorganisms: Friend and Foe	<ul style="list-style-type: none"> <li>▪ Microorganisms</li> <li>▪ Where do microorganisms live?</li> <li>▪ Microorganisms and us</li> <li>▪ Harmful Microorganisms</li> <li>▪ Food Preservation</li> <li>▪ Nitrogen Fixation</li> <li>▪ Nitrogen cycle</li> </ul>	<ul style="list-style-type: none"> <li>▪ Microorganisms</li> <li>▪ Where do microorganisms live?</li> <li>▪ Microorganisms and us</li> <li>▪ Harmful Microorganisms</li> <li>▪ Food Preservation</li> <li>▪ Nitrogen Fixation</li> <li>▪ Nitrogen cycle</li> </ul>
8	Force and Pressure	<ul style="list-style-type: none"> <li>▪ Force – A Push or a Pull</li> <li>▪ Forces are due to an interaction</li> <li>▪ Exploring Forces</li> <li>▪ A force can change the state of motion</li> <li>▪ Force can change the shape of an object</li> <li>▪ Contact Forces               <ul style="list-style-type: none"> <li>○ Muscular force</li> <li>○ Friction</li> </ul> </li> <li>▪ Non-contact Forces               <ul style="list-style-type: none"> <li>○ Magnetic Force</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▪ Force – A Push or a Pull</li> <li>▪ Forces are due to an interaction</li> <li>▪ Exploring Forces</li> <li>▪ A force can change the state of motion</li> <li>▪ Force can change the shape of an object</li> <li>▪ Contact Forces               <ul style="list-style-type: none"> <li>○ Muscular force</li> <li>○ Friction</li> </ul> </li> <li>▪ Non-contact Forces               <ul style="list-style-type: none"> <li>○ Magnetic Force</li> </ul> </li> </ul>

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		<ul style="list-style-type: none"><li>○ Electrostatic Force</li><li>○ Gravitational Force</li><li>▪ Pressure</li><li>▪ Pressure exerted by liquids and gases</li><li>▪ Atmospheric Pressure</li></ul>	<ul style="list-style-type: none"><li>○ Electrostatic Force</li><li>○ Gravitational Force</li><li>▪ Pressure</li><li>▪ Pressure exerted by liquids and gases</li><li>▪ Atmospheric Pressure</li></ul>
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<b>PHASE 2</b>			
<b>Ch. No.</b>	<b>Chapter Name</b>	<b>Subtopics</b>	<b>HYE portion</b> <b>Total Marks: 80</b> <b>Duration: 3 hours</b>
			<b>PT1 portion is included</b>
3	Coal and Petroleum	<ul style="list-style-type: none"> <li>▪ Coal</li> <li>▪ Petroleum</li> <li>▪ Natural Gas</li> <li>▪ Some natural resources are limited</li> </ul>	<ul style="list-style-type: none"> <li>▪ Coal</li> <li>▪ Petroleum</li> <li>▪ Natural Gas</li> <li>▪ Some natural resources are limited</li> </ul>
12	Some Natural Phenomena	<ul style="list-style-type: none"> <li>▪ Lightning</li> <li>▪ Charging by rubbing</li> <li>▪ Types of charges and their interaction</li> <li>▪ Transfer of charge</li> <li>▪ The story of lightning</li> <li>▪ Lightning Safety</li> <li>▪ Earthquakes</li> </ul>	<ul style="list-style-type: none"> <li>▪ Lightning</li> <li>▪ Charging by rubbing</li> <li>▪ Types of charges and their interaction</li> <li>▪ Transfer of charge</li> <li>▪ The story of lightning</li> <li>▪ Lightning Safety</li> <li>▪ Earthquakes</li> </ul>
13	Light	<ul style="list-style-type: none"> <li>▪ What makes things visible</li> <li>▪ Laws of Reflection</li> <li>▪ Regular and diffused reflection</li> <li>▪ Reflected light can be reflected again</li> <li>▪ Multiple Images</li> <li>▪ Sunlight — White or Coloured</li> <li>▪ What is inside our eyes?</li> <li>▪ Care of eyes</li> <li>▪ Visually challenged persons can read and write</li> <li>▪ What is a Braille System?</li> </ul>	<ul style="list-style-type: none"> <li>▪ What makes things visible</li> <li>▪ Laws of Reflection</li> <li>▪ Regular and diffused reflection</li> <li>▪ Reflected light can be reflected again</li> <li>▪ Multiple Images</li> <li>▪ Sunlight — White or Coloured</li> <li>▪ What is inside our eyes?</li> <li>▪ Care of eyes</li> <li>▪ Visually challenged persons can read and write</li> <li>▪ What is a Braille System?</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>
5	Conservation of Plants and Animals	<ul style="list-style-type: none"> <li>▪ Deforestation and its causes</li> <li>▪ Consequences of deforestation</li> <li>▪ Conservation of forest and wildlife</li> <li>▪ Biosphere Reserve</li> <li>▪ Flora and Fauna</li> <li>▪ Endemic Species</li> <li>▪ Wildlife Sanctuary</li> <li>▪ National Park</li> <li>▪ Red Data Book</li> <li>▪ Migration</li> <li>▪ Recycling of paper</li> <li>▪ Reforestation</li> </ul>	<ul style="list-style-type: none"> <li>▪ Deforestation and its causes</li> <li>▪ Consequences of deforestation</li> <li>▪ Conservation of forest and wildlife</li> <li>▪ Biosphere Reserve</li> <li>▪ Flora and Fauna</li> <li>▪ Endemic Species</li> <li>▪ Wildlife Sanctuary</li> <li>▪ National Park</li> <li>▪ Red Data Book</li> <li>▪ Migration</li> <li>▪ Recycling of paper</li> <li>▪ Reforestation</li> </ul>
10	Sound	<ul style="list-style-type: none"> <li>▪ Sound is produced by a vibrating body</li> <li>▪ Sound produced by humans</li> <li>▪ Sound needs a medium for propagation</li> <li>▪ We hear sound through our ears</li> <li>▪ Amplitude, Time Period and Frequency of a vibration</li> <li>▪ Audible and Inaudible sounds</li> <li>▪ Noise and Music</li> <li>▪ Noise Pollution</li> </ul>	<ul style="list-style-type: none"> <li>▪ Sound is produced by a vibrating body</li> <li>▪ Sound produced by humans</li> <li>▪ Sound needs a medium for propagation</li> <li>▪ We hear sound through our ears</li> <li>▪ Amplitude, Time Period and Frequency of a vibration</li> <li>▪ Audible and Inaudible sounds</li> <li>▪ Noise and Music</li> <li>▪ Noise Pollution</li> </ul>
11	Chemical Effect of Electric Current	<ul style="list-style-type: none"> <li>▪ Do liquids conduct electricity?</li> <li>▪ Chemical effects of electric current</li> <li>▪ Electroplating</li> </ul>	<ul style="list-style-type: none"> <li>▪ Do liquids conduct electricity?</li> <li>▪ Chemical effects of electric current</li> <li>▪ Electroplating</li> </ul>

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<b>PHASE 4</b>			
<b>Ch. No.</b>	<b>Chapter Name</b>	<b>Subtopics</b>	<b>YE portion</b> <b>Total Marks: 80</b> <b>Duration: 3 hours</b>
			<b>PT2 portion is included</b> <b>Chapters included from Term 1 are:</b> <ul style="list-style-type: none"> <li>• Chapter 2: Microorganisms: Friend and Foe</li> <li>• Chapter 3: Coal and Petroleum</li> <li>• Chapter 13: Light</li> </ul>
4	Combustion and Flame	<ul style="list-style-type: none"> <li>▪ What is combustion?</li> <li>▪ How do we control fire?</li> <li>▪ Types of combustion</li> <li>▪ Flame</li> <li>▪ Structure of a flame</li> <li>▪ What is a fuel?</li> <li>▪ Fuel efficiency</li> </ul>	<ul style="list-style-type: none"> <li>▪ What is combustion?</li> <li>▪ How do we control fire?</li> <li>▪ Types of combustion</li> <li>▪ Flame</li> <li>▪ Structure of a flame</li> <li>▪ What is a fuel?</li> <li>▪ Fuel efficiency</li> </ul>
6	Reproduction in Animals	<ul style="list-style-type: none"> <li>▪ Modes of Reproduction</li> <li>▪ Sexual Reproduction</li> <li>▪ Asexual Reproduction</li> </ul>	<ul style="list-style-type: none"> <li>▪ Modes of Reproduction</li> <li>▪ Sexual Reproduction</li> <li>▪ Asexual Reproduction</li> </ul>
7	Reaching the Age of Adolescence	<ul style="list-style-type: none"> <li>▪ Adolescence and Puberty</li> <li>▪ Changes at puberty</li> <li>▪ Secondary sexual characters</li> <li>▪ Role of hormones in initiating reproductive function</li> <li>▪ Reproductive phase of life in humans</li> <li>▪ How is the sex of the baby determined?</li> <li>▪ Hormones other than sex hormones</li> <li>▪ Role of hormones in completing the life history of insects and frogs</li> <li>▪ Reproductive health</li> </ul>	<ul style="list-style-type: none"> <li>▪ Adolescence and Puberty</li> <li>▪ Changes at puberty</li> <li>▪ Secondary sexual characters</li> <li>▪ Role of hormones in initiating reproductive function</li> <li>▪ Reproductive phase of life in humans</li> <li>▪ How is the sex of the baby determined?</li> <li>▪ Hormones other than sex hormones</li> <li>▪ Role of hormones in completing the life history of insects and frogs</li> <li>▪ Reproductive health</li> </ul>

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9	Friction	<ul style="list-style-type: none"> <li>▪ Force of Friction</li> <li>▪ Factors affecting friction</li> <li>▪ Friction: A necessary evil</li> <li>▪ Increasing and reducing friction</li> <li>▪ Wheels reduce friction</li> <li>▪ Fluid Friction</li> </ul>	<ul style="list-style-type: none"> <li>▪ Force of Friction</li> <li>▪ Factors affecting friction</li> <li>▪ Friction: A necessary evil</li> <li>▪ Increasing and reducing friction</li> <li>▪ Wheels reduce friction</li> <li>▪ Fluid Friction</li> </ul>
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