

Syllabus Indicator and Exam Portion

CBSE – 2023-24

Subject: Science

Grade: VIII

PHASE 1			
Ch. No.	Chapter Name	Subtopics	PT1 portion Total Marks: 40 Duration: 1 hour 30 minutes
1	Crop Production and Management	<ul style="list-style-type: none"> ▪ Agricultural practices ▪ Basic practices of crop production ▪ Preparation of soil ▪ Sowing ▪ Adding manure and fertilisers ▪ Irrigation ▪ Protection from weeds ▪ Harvesting ▪ Storage ▪ Food from animals 	<ul style="list-style-type: none"> ▪ Agricultural practices ▪ Basic practices of crop production ▪ Preparation of soil ▪ Sowing ▪ Adding manure and fertilisers ▪ Irrigation ▪ Protection from weeds ▪ Harvesting ▪ Storage ▪ Food from animals
2	Microorganisms: Friend and Foe	<ul style="list-style-type: none"> ▪ Microorganisms ▪ Where do microorganisms live? ▪ Microorganisms and us ▪ Harmful Microorganisms ▪ Food Preservation ▪ Nitrogen Fixation 	<ul style="list-style-type: none"> ▪ Microorganisms ▪ Where do microorganisms live? ▪ Microorganisms and us ▪ Harmful Microorganisms ▪ Food Preservation ▪ Nitrogen Fixation
4	Materials: Metals and Non-metals*	<ul style="list-style-type: none"> ▪ Physical properties of metals and non-metals ▪ Chemical properties of metals and non-metals ▪ Uses of metals and non-metals 	Not for Assessment
11	Force and Pressure	<ul style="list-style-type: none"> ▪ Force – A Push or a Pull ▪ Forces are due to an interaction ▪ Exploring Forces ▪ A force can change the state of motion ▪ Force can change the shape of an object ▪ Contact Forces <ul style="list-style-type: none"> ○ Muscular force ○ Friction ▪ Non-contact Forces 	<ul style="list-style-type: none"> ▪ Force – A Push or a Pull ▪ Forces are due to an interaction ▪ Exploring Forces ▪ A force can change the state of motion ▪ Force can change the shape of an object ▪ Contact Forces <ul style="list-style-type: none"> ○ Muscular force ○ Friction ▪ Non-contact Forces

		<ul style="list-style-type: none"> ○ Magnetic Force ○ Electrostatic Force ○ Gravitational Force ▪ Pressure ▪ Pressure exerted by liquids and gases ▪ Atmospheric Pressure 	<ul style="list-style-type: none"> ○ Magnetic Force ○ Electrostatic Force ○ Gravitational Force ▪ Pressure ▪ Pressure exerted by liquids and gases ▪ Atmospheric Pressure
<p>*Chapter excluded/dropped by the CBSE from the Syllabus hence this chapter will not be assessed.</p> <ul style="list-style-type: none"> ▪ Chapter 4. Materials: Metals and Non-metals 			

PHASE 2			
Ch. No.	Chapter Name	Subtopics	HYE portion Total Marks: 80 Duration: 3 hours
			PT1 portion is included
3	Synthetic Fibres and Plastics*	<ul style="list-style-type: none"> What are synthetic fibres? Types of synthetic fibres Characteristics of synthetic fibres Plastics Plastics and the environment 	Not for Assessment
5	Coal and Petroleum	<ul style="list-style-type: none"> Coal Petroleum Natural Gas Some natural resources are limited 	<ul style="list-style-type: none"> Coal Petroleum Natural Gas Some natural resources are limited
8	Cell: Structure and Functions*	<ul style="list-style-type: none"> Discovery of the cell The Cell Organisms show variety in cell number, shape and size Cell structure and function Parts of the cell Comparison of plant and animal cells 	Not for Assessment
15	Some Natural Phenomena	<ul style="list-style-type: none"> Lightning Charging by rubbing Types of charges and their interaction Transfer of charge The story of lightning Lightning Safety Earthquakes 	<ul style="list-style-type: none"> Lightning Charging by rubbing Types of charges and their interaction Transfer of charge The story of lightning Lightning Safety Earthquakes
16	Light	<ul style="list-style-type: none"> What makes things visible Laws of Reflection Regular and diffused reflection Reflected light can be reflected again Multiple Images 	<ul style="list-style-type: none"> What makes things visible Laws of Reflection Regular and diffused reflection Reflected light can be reflected again Multiple Images

		<ul style="list-style-type: none">▪ Sunlight — White or Coloured▪ What is inside our eyes?▪ Care of eyes▪ Visually challenged persons can read and write▪ What is a Braille System?	<ul style="list-style-type: none">▪ Sunlight — White or Coloured▪ What is inside our eyes?▪ Care of eyes▪ Visually challenged persons can read and write▪ What is a Braille System?
<p>*Chapters excluded/dropped by the CBSE from the Syllabus hence these chapters will not be assessed.</p> <ul style="list-style-type: none">▪ Chapter 3. Synthetic Fibres and Plastics▪ Chapter 8. Cell: Structure and Functions			

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PHASE 3			
Ch. No.	Chapter Name	Subtopics	PT2 portion Total Marks: 40 Duration: 1 hour 30 minutes
7	Conservation of Plants and Animals	<ul style="list-style-type: none"> Deforestation and its causes Consequences of deforestation Conservation of forest and wildlife Biosphere Reserve Flora and Fauna Endemic Species Wildlife Sanctuary National Park Red Data Book Migration Recycling of paper Reforestation 	<ul style="list-style-type: none"> Deforestation and its causes Consequences of deforestation Conservation of forest and wildlife Biosphere Reserve Flora and Fauna Endemic Species Wildlife Sanctuary National Park Red Data Book Migration Recycling of paper Reforestation
13	Sound	<ul style="list-style-type: none"> Sound is produced by a vibrating body Sound produced by humans Sound needs a medium for propagation We hear sound through our ears Amplitude, Time Period and Frequency of a vibration Audible and Inaudible sounds Noise and Music Noise Pollution 	<ul style="list-style-type: none"> Sound is produced by a vibrating body Sound produced by humans Sound needs a medium for propagation We hear sound through our ears Amplitude, Time Period and Frequency of a vibration Audible and Inaudible sounds Noise and Music Noise Pollution
14	Chemical Effect of Electric Current	<ul style="list-style-type: none"> Do liquids conduct electricity? Chemical effects of electric current Electroplating 	<ul style="list-style-type: none"> Do liquids conduct electricity? Chemical effects of electric current Electroplating
17	Stars and the Solar System*	<ul style="list-style-type: none"> The Moon The Stars Constellations The Solar System Some other members of the solar system 	Not for Assessment
*Chapter excluded/dropped by the CBSE from the Syllabus hence this chapter will not be assessed. <ul style="list-style-type: none"> Chapter 17. Stars and the Solar System 			

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PHASE 4			
Ch. No.	Chapter Name	Subtopics	YE portion Total Marks: 80 Duration: 3 hours
			PT2 portion is included Chapters included from Term 1 are: <ul style="list-style-type: none"> Chapter 5: Coal and Petroleum Chapter 2: Microorganisms: Friend and Foe Chapter 16: Light
6	Combustion and Flame	<ul style="list-style-type: none"> What is combustion? How do we control fire? Types of combustion Flame Structure of a flame What is a fuel? Fuel efficiency 	<ul style="list-style-type: none"> What is combustion? How do we control fire? Types of combustion Flame Structure of a flame What is a fuel? Fuel efficiency
9	Reproduction in Animals	<ul style="list-style-type: none"> Modes of Reproduction Sexual Reproduction Asexual Reproduction 	<ul style="list-style-type: none"> Modes of Reproduction Sexual Reproduction Asexual Reproduction
10	Reaching the Age of Adolescence	<ul style="list-style-type: none"> Adolescence and Puberty Changes at puberty Secondary sexual characters Role of hormones in initiating reproductive function Reproductive phase of life in humans How is the sex of the baby determined? Hormones other than sex hormones Role of hormones in completing the life history of insects and frogs Reproductive health 	<ul style="list-style-type: none"> Adolescence and Puberty Changes at puberty Secondary sexual characters Role of hormones in initiating reproductive function Reproductive phase of life in humans How is the sex of the baby determined? Hormones other than sex hormones Role of hormones in completing the life history of insects and frogs Reproductive health
12	Friction	<ul style="list-style-type: none"> Force of Friction Factors affecting friction Friction: A necessary evil 	<ul style="list-style-type: none"> Force of Friction Factors affecting friction Friction: A necessary evil

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		<ul style="list-style-type: none"> Increasing and reducing friction Wheels reduce friction Fluid Friction 	<ul style="list-style-type: none"> Increasing and reducing friction Wheels reduce friction Fluid Friction
18	Pollution of Air and Water*	<ul style="list-style-type: none"> Air Pollution How does air get polluted? Case study : The Taj Mahal Greenhouse Effect What can be done? Water Pollution How does water get polluted? What is potable water and how is water purified? What can be done? 	Not for Assessment
<p>*Chapter excluded/dropped by the CBSE from the Syllabus hence this chapter will not be assessed.</p> <ul style="list-style-type: none"> Chapter 18. Pollution of Air and Water 			

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