

Syllabus Indicator and Exam Portion CBSE – 2023-24

Subject: Science

Grade: X

PHASE 1			
Ch. No.	Chapter Name	Subtopics	PT1 portion Total Marks: 80 Duration: 3 hours
1	Chemical Reactions and Equations	<ul style="list-style-type: none"> ▪ Chemical equations ▪ Types of chemical reactions ▪ Have you observed the effects of oxidation reactions in everyday life? 	<ul style="list-style-type: none"> ▪ Chemical equations ▪ Types of chemical reactions ▪ Have you observed the effects of oxidation reactions in everyday life?
2	Acids, Bases and Salts	<ul style="list-style-type: none"> ▪ Understanding the chemical properties of acids and bases ▪ What do all acids and all bases have in common? ▪ How strong are acid or base solutions? ▪ More about salts 	<ul style="list-style-type: none"> ▪ Understanding the chemical properties of acids and bases ▪ What do all acids and all bases have in common? ▪ How strong are acid or base solutions? ▪ More about salts
5	Life Processes	<ul style="list-style-type: none"> ▪ What are life processes? ▪ Nutrition ▪ Respiration ▪ Transportation ▪ Excretion 	<ul style="list-style-type: none"> ▪ What are life processes? ▪ Nutrition ▪ Respiration ▪ Transportation ▪ Excretion
11	Electricity	<ul style="list-style-type: none"> ▪ Electric current and circuit ▪ Electric potential and potential difference ▪ Circuit diagram ▪ Ohm's law ▪ Factors on which the resistance of a conductor depends ▪ Resistance of a system of resistors ▪ Heating effect of electric current ▪ Electric power 	<ul style="list-style-type: none"> ▪ Electric current and circuit ▪ Electric potential and potential difference ▪ Circuit diagram ▪ Ohm's law ▪ Factors on which the resistance of a conductor depends ▪ Resistance of a system of resistors ▪ Heating effect of electric current ▪ Electric power

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PHASE 2			
Ch. No.	Chapter Name	Subtopics	PT2 portion
			Total Marks: 80 Duration: 3 hours
			PT1 portion is included
3	Metals and Non-metals	<ul style="list-style-type: none"> ▪ Physical properties ▪ Chemical properties of metals ▪ How do metals and non-metals react? ▪ Occurrence of metals ▪ Corrosion 	<ul style="list-style-type: none"> ▪ Physical properties ▪ Chemical properties of metals ▪ How do metals and non-metals react? ▪ Occurrence of metals ▪ Corrosion
6	Control and Coordination	<ul style="list-style-type: none"> ▪ Animals- nervous system ▪ Coordination in plants ▪ Hormones in animals ▪ Endocrine glands 	<ul style="list-style-type: none"> ▪ Animals- nervous system ▪ Coordination in plants ▪ Hormones in animals ▪ Endocrine glands
12	Magnetic Effects of Electric Current	<ul style="list-style-type: none"> ▪ Magnetic field and field lines ▪ Magnetic field due to a current-carrying conductor ▪ Force on a current-carrying conductor in a magnetic field ▪ Domestic electric circuits 	<ul style="list-style-type: none"> ▪ Magnetic field and field lines ▪ Magnetic field due to a current-carrying conductor ▪ Force on a current-carrying conductor in a magnetic field ▪ Domestic electric circuits

PHASE 3			
Ch. No.	Chapter Name	Subtopics	PT3 portion Total Marks: 80 Duration: 3 hours PT1 and PT2 portions are included
4	Carbon and its Compounds	<ul style="list-style-type: none"> ▪ Bonding in carbon- the covalent bond ▪ Versatile nature of carbon ▪ Chemical properties of carbon compounds ▪ Some important carbon compounds – ethanol and ethanoic acid ▪ Soaps and detergents 	<ul style="list-style-type: none"> ▪ Bonding in carbon- the covalent bond ▪ Versatile nature of carbon ▪ Chemical properties of carbon compounds ▪ Some important carbon compounds – ethanol and ethanoic acid ▪ Soaps and detergents
7	How do Organisms Reproduce?	<ul style="list-style-type: none"> ▪ Do organisms create exact copies of themselves? ▪ Modes of reproduction used by single organisms ▪ Sexual reproduction 	<ul style="list-style-type: none"> ▪ Do organisms create exact copies of themselves? ▪ Modes of reproduction used by single organisms ▪ Sexual reproduction
9	Light-Reflection and Refraction	<ul style="list-style-type: none"> ▪ Reflection of light ▪ Spherical mirrors ▪ Refraction of light 	<ul style="list-style-type: none"> ▪ Reflection of light ▪ Spherical mirrors ▪ Refraction of light

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PHASE 4			
Ch. No.	Chapter Name	Subtopics	Pre-Board portion Total Marks: 80 Duration: 3 hours PT1, PT2 and PT3 portions are included
8	Heredity	<ul style="list-style-type: none"> ▪ Accumulation of variation during reproduction ▪ Heredity 	<ul style="list-style-type: none"> ▪ Accumulation of variation during reproduction ▪ Heredity
10	The Human Eye and the Colourful World	<ul style="list-style-type: none"> ▪ The human eye ▪ Defects of vision and their correction ▪ Refraction of light through a prism ▪ Dispersion of white light by a glass prism ▪ Atmospheric refraction ▪ Scattering of light 	<ul style="list-style-type: none"> ▪ The human eye ▪ Defects of vision and their correction ▪ Refraction of light through a prism ▪ Dispersion of white light by a glass prism ▪ Atmospheric refraction ▪ Scattering of light
13	Our Environment	<ul style="list-style-type: none"> ▪ Eco-system - What are its components? ▪ How do our activities affect the environment? 	<ul style="list-style-type: none"> ▪ Eco-system - What are its components? ▪ How do our activities affect the environment?