BLOOM PUBLIC SCHOOL
C-8, Vasant Kunj, New Delhi
Syllabus for the session 2026-2027

CLASS: X
SUBJECT: SCIENCE

MONTH	CHAPTERS (AS PER NCERT)	CONTENT	PRACTICAL/ ACTIVITES
MARCH	**Chapter 1: Chemical Reactions and Equations**	**Chemical reactions**: Chemical equation, Balanced chemical equation, implications of a balanced chemical equation, types of chemical reactions: combination, decomposition, displacement, double displacement, precipitation, endothermic exothermic reactions, oxidation and reduction	**Poster** on different kinds of reaction and its type. **PRACTICALS** – Types of reaction
	Chapter 11: Electricity	**Electricity**: Electric current, potential difference and electric current. Ohm's law; Resistance, Resistivity, Factors on which the resistance of a conductor depends. Series combination of resistors, parallel combination of resistors and its applications in daily life. Heating effect of electric current and its applications in daily life. Electric power, Interrelation between P, V, I and R.	**Mind map** on electricity **PRACTICAL** on ohm's law. Direct relationship between I and V.
	Chapter 8: Heredity and Evolution	**Heredity and Evolution**: Heredity and Evolution: Heredity; Mendel's contribution- Laws for inheritance of traits: Sex determination: brief introduction: (topics excluded - evolution; evolution and classification and evolution should not be equated with progress).	**Flow chat** on mono hydride and dihybrid cross **PRACTICAL -** stomata

APRIL	**Chapter 1: Chemical Reactions and Equations (Cont'd)**	**Chemical reactions**: Chemical equation, Balanced chemical equation, implications of a balanced chemical equation, types of chemical reactions: combination, decomposition, displacement, double displacement, precipitation, endothermic exothermic reactions, oxidation and reduction	**Poster** on different kinds of reaction and its type. **PRACTICALS** – Types of reaction
	Chapter 11: Electricity(cont'd)	**Electricity**: Electric current, potential difference and electric current. Ohm's law; Resistance, Resistivity, Factors on which the resistance of a conductor depends. Series combination of resistors, parallel combination of resistors and its applications in daily life. Heating effect of electric current and its applications in daily life. Electric power, Interrelation between P, V, I and R.	**Mind map** on electricity **PRACTICAL** on ohm's law. series connection.
	Chapter 8: Heredity and Evolution (Cont.)	**Heredity and Evolution:** Heredity and Evolution: Heredity; Mendel's contribution- Laws for inheritance of traits: Sex determination: brief introduction: (topics excluded - evolution; evolution and classification and evolution should not be equated with progress	**Flow chat** on mono hydride and dihybrid cross. Inheritance of similar and dissimilar characters in their own family **PRACTICAL** - stomata
	Chapter 5: Life Processes	**Life Processes**: 'Living Being'. Basic concept of nutrition, respiration, transport	**Diagram** on digestive system, respiratory

		and excretion in plants and animals.	system, heart and excretory system
MAY	**Chapter 2: Acids, Bases and Salts**	**Acids, bases and salts:** Their definitions in terms of furnishing of H+ and OH– ions, General properties, examples and uses, neutralization, concept of pH scale (Definition relating to logarithm not required), importance of pH in everyday life; preparation and uses of Sodium Hydroxide, bleaching powder, Baking soda, Washing soda and Plaster of Paris.	**Research** to find out neutral salt, strong acidic salt, weak acidic salt, strong basic salt and weak basic salt. **PRACTICAL-** properties of acid and bases
	Chapter 12: Magnetic Effect of Electric Current	**Magnetic effects of current:** Magnetic field, field lines, field due to a current carrying conductor, field due to current carrying coil or solenoid; Force on current carrying conductor, Fleming's Left Hand Rule, Direct current. Alternating current: frequency of AC. Advantage of AC over DC. Domestic electric circuits.	**PPT** on Magnetic effect **PRACTICAL-** ohm's Law – parallel connection of resistance
	Chapter 5: Life Processes (Cont'd)	**Life Processes**: 'Living Being'. Basic concept of nutrition, respiration, transport and excretion in plants and animals	**Diagram** on digestive system, respiratory system, heart and excretory system **PRACTICAL-**C02 given out during respiration
JULY	**Chapter 2: Acids, Bases and Salts (Cont'd)**	**Acids, bases and salts:** Their definitions in terms of furnishing of H+ and OH– ions, General properties, examples and uses, neutralization, concept of pH scale (Definition relating	**Test** of acidity and basicity through Ph scale of thing around us. **PRACTICAL-** pH

		to logarithm not required), importance of pH in everyday life; preparation and uses of Sodium Hydroxide, Bleaching powder, Baking soda, Washing soda and Plaster of Paris.	scale of acid and base present in lab
	Chapter 9: Light – Reflection and Refraction	**Light**: Reflection of light by curved surfaces; Images formed by spherical mirrors, centre of curvature, principal axis, principal focus, focal length, mirror formula (Derivation not required), magnification. Refraction; Laws of refraction, refractive index. Refraction of light by spherical lens; Image formed by spherical lenses; Lens formula (Derivation not required); Magnification. Power of a lens	**Ray diagram** of concave and convex mirror **PRACTICAL-** refraction through glass slab
	Chapter 6: Control and Coordination in animals and plants	**Control and Coordination in animals and plants:** Tropic movements in plants; Introduction of plant hormones; Control and co-ordination in animals: Nervous system; Voluntary, involuntary and reflex action; Chemical co-ordination: animal hormones.	**Mind map** of hormones released by plants and animals **PRACTICAL-**Binary fission in Amoeba, budding in Yeast and Hydra
AUGUST	**Chapter 3: Metals and Non metals**	**Metals and nonmetals**: Properties of metals and non-metals; Reactivity series; Formation and properties of ionic compounds; Basic metallurgical processes; Corrosion and its prevention.	**Flow chat** of reactivity series of metals and its extraction **PRACTICAL-** Reaction of metals 5 properties of acetic acid
	Chapter 9: Light – Reflection and Refraction (Cont'd)	**Light**: Reflection of light by curved surfaces; Images formed by spherical mirrors, centre of curvature, principal axis, principal focus, focal length, mirror formula (Derivation not required), magnification. Refraction; Laws of refraction, refractive index.	**Ray diagram** of concave and convex lens **PRACTICAL-** Refraction through prism

	Chapter 6: Control and Coordination in animals and plants (Cont.)	Refraction of light by spherical lens; Image formed by spherical lenses; Lens formula (Derivation not required); Magnification. Power of a lens **Control and Coordination in animals and plants:** Tropic movements in plants; Introduction of plant hormones; Control and co-ordination in animals: Nervous system; Voluntary, involuntary and reflex action; Chemical co-ordination: animal hormones.	**Role play** based on the response of brain and hormone with respect to different stimuli. **PRACTICAL-** Binary fission in Amoeba, budding in Yeast and Hydra
SEPTEMBER	**Chapter 4: Carbon and it's Compounds**	**Carbon compounds:** Covalent bonding in carbon compounds. Versatile nature of carbon. Homologous series. Nomenclature of carbon compounds containing functional groups (halogens, alcohol, ketones, aldehydes, alkanes and alkynes), difference between saturated hydrocarbons and unsaturated hydrocarbons. Chemical properties of carbon compounds (combustion, oxidation, addition and substitution reaction). Ethanol and Ethanoic acid (only properties and uses), soaps and detergents.	**DIAGRAM-** of electron dot structure of compounds present in the chapter **PRACTICAL-** cleaning capacity of soap in hard and soft water
	Chapter 10: Human Eye and Colourful world	**Human Eye and Colourful World** Functioning of a lens in the human eye, defects of vision and their corrections, applications of spherical mirrors and lenses. Refraction of light through a prism, dispersion of light, scattering of light, applications in daily life (excluding colour of the sun at sunrise and sunset)	**Diagram** of human eye and refraction through prism**.** **PRACTICAL-** determination of the focal length of concave mirror

	Chapter 7: How do Organisms Reproduce?	**Reproduction**: Reproduction in animals and plants (asexual and sexual) reproductive health - need and methods of family planning. Safe sex vs HIV/AIDS. Child bearing and women's health.	**Mind Map** of sexual and asexual reproduction **PRACTICAL-** Binary fission in Amoeba, budding in Yeast and Hydra
OCTOBER	**Chapter 4: Carbon and it's Compounds (Cont'd)**	**Carbon compounds:** Covalent bonding in carbon compounds. Versatile nature of carbon. Homologous series. Nomenclature of carbon compounds containing functional groups (halogens, alcohol, ketones, aldehydes, alkanes and alkynes), difference between saturated hydro carbons and unsaturated hydrocarbons. Chemical properties of carbon compounds (combustion, oxidation, addition and substitution reaction). Ethanol and Ethanoic acid (only properties and uses), soaps and detergents.	**DIAGRAM-** of electron dot structure of compounds present in the chapter **PRACTICAL-** cleaning action of soap in hard and soft water
	Chapter 10: Human Eye and Colourful world (Cont'd)	**Human Eye and Colourful World** Functioning of a lens in the human eye, defects of vision and their corrections, applications of spherical mirrors and lenses. Refraction of light through a prism, dispersion of light, scattering of light, applications in daily life (excluding colour of the sun at sunrise and sunset)	**Identify** the cause of myopia and hypermetropia**.** And how many students in the class are having myopia/hypermetropia. **PRACTICAL-** determination of the focal length of concave mirror.
	Chapter 7: How do Organisms Reproduce?	**Reproduction**: Reproduction in animals and plants (asexual and sexual) reproductive health - need and methods of family planning. Safe sex vs HIV/AIDS. Child bearing and women's health.	**Mind Map** of sexual and asexual reproduction **PRACTICAL-** Binary fission in Amoeba, budding in Yeast and Hydra

NOVEMBER	**Chapter 13: Our Environment** **Revision**	**Our Environment**: Eco-system, Environmental problems, Ozone depletion, waste production and their solutions. Biodegradable and non-biodegradable substances. **Revision**	Calculate how much waste is generated in classroom in a day and is it biodegradable? **PRACTICAL-**parts of dicot seed.
DECEMBER	**Pre-Board exam**	**Revision, Pre-Board exam**	
JANUARY	**Pre-Board Exam**	**Revision, Pre-Board exam**	
FEBRUARY	**Board Exam**	**Board Exam**	
MARCH	**Board Exam**	**Board Exam**	

ASSESSMENT SYLLABUS	
PERIODIC ASSESSMENT -1	Chapter 1: Chemical reactions and equations Chapter 8: Heredity and Evolution Chapter 11: Electricity
PERIODIC ASSESSMENT -2	Chapter 2: Acids, bases and salt Chapter 5: Life Processes Chapter 8: Heredity and Evolution Chapter 12: Magnetic effect of current
MID-TERM EXAM	Chapter 1: Chemical reactions and equations Chapter 2: Acid bases and salt Chapter 3: Metals and Non-metals Chapter 5: Life Processes Chapter 6: Control and Coordination Chapter 8: Heredity and Evolution Chapter 9: Light – Reflection and Refraction Chapter 11: Electricity. Chapter 12: Magnetic effects of current

PRE-BOARD EXAM	Chapter 1: Chemical reactions and equations Chapter 2: Acid bases and salt Chapter 3: Metals and Non-metals Chapter 4: Carbon and its compound Chapter 5: Life Processes Chapter 6: Control and Coordination Chapter 7: How do organisms Reproduce? Chapter 8: Heredity and Evolution Chapter 9: Light – Reflection and Refraction Chapter 10: Human eye and colourful world Chapter 11: Electricity. Chapter 12: Magnetic effects of current Chapter 13: Our Environment
BOARD EXAM	Chapter 1: Chemical reactions and equations Chapter 2: Acid bases and salt Chapter 3: Metals and Non-metals Chapter 4: Carbon and its compound Chapter 5: Life Processes Chapter 6: Control and Coordination Chapter 7: How do organisms Reproduce? Chapter 8: Heredity and Evolution Chapter 9: Light – Reflection and Refraction Chapter 10: Human eye and colourful world Chapter 11: Electricity. Chapter 12: Magnetic effects of current Chapter 13: Our Environment