

KLE ENGLISH MEDIUM SCHOOL

JULE SOLAPUR

GRADE - X SYLLABUS SPLIT 2023-24

SCIENCE					
Sr. No	Month	Unit/subunit	Values	Practical /Activity/Projects	Examination
1	April/June	Light-Reflection & Refraction 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	Understands the reflections of good deeds and bad deeds	Lab activities	
2	April/June	Chemical Reactions & Equations 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.	Aesthetic values ,social values, Understands the situations of daily life.	Lab activities	
3	April-June	Life Processes ‘Living Being’. Basic concept of nutrition, respiration, transport and excretion in plants and animal	Understand Various life Processes & Develops good healths	Lab activities	
4	July & August	Human eye and Colourful world Refraction of light through a prism, dispersion of light, scattering of light, applications in daily life.	social values, Understands the situations of daily life.	Lab activities	

5	July & August	Acids ,Bases &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 Bleach of Domestic	Environmental sensitivity, importance of neutralising effect	Lab activities	
6	July/August	Control & Coordination Animal nervous system, What happens in reflex action? Human brain, Coordination in plants, Movement due to growth, Hormones in animals.	Understand Coordination Between organs	Activities	
7	September	Metals & Non-Metals : Properties of metals and non-metals; Reactivity series; Formation and properties of ionic compounds; Basic metallurgical processes; Corrosion and its prevention	appreciates metallurgy	Lab activities	
8	September	Electricity 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.	circuit designing, power losses. Devices used on heating effect of current.	Lab activities	Periodic Test -2

9	September	How do Organisms Reproduce 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.	understand the Reproductive organs & develops good reproductive health	Activities	Periodic Test -2
	October 8 periods	Electricity : Electric power, Interrelation between P, V, I and R.		Lab Activities	Periodic Test -2
10	November & December	Magnetic effects of electric 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, Electric Motor, Electromagnetic induction. Induced potential difference, Induced current. Fleming's Right Hand Rule	Use of alternate and direct currents in day today life., dc motors, ac motors ,generators, domestic electric circuits	Lab activities	
11	November & December	Carbon & its 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	Appreciates the chemical bonding	Lab activities	Periodic Test -2
12	November /December	Heredity : Heredity; Mendel's contribution- Laws for inheritance of traits: Sex determination: brief introduction;	Importances of evolution	Activities	

13	December	Our Environment Eco-system, Environmental problems, Ozone depletion, waste production and their solutions. Biodegradable and non-biodegradable substances.	appreciates the scientists	Activities	
14	January/february	REVISION OF ALL THE CHAPTERS FOR THE CBSE BOARD EXAMINATION			