KLE ENGLISH MEDIUM SCHOOL

JULE – SOLAPUR GRADE- IX SYLLABUS SPLIT 2023-24

SCIENCE

| SCIENCE | | | | | | | |
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| Sr. No. | Month | Unit / Subunit | Values | Activities/Practical | Examination | | |
| 1 | April/Jun e | Motion Distance and displacement, velocity; uniform and non-uniform motion along a straight line; acceleration, distance-time and velocity-time graphs for uniform motion and uniformly accelerated motion, derivation of equations of motion by graphical method; elementary idea of uniform circular motion | Appreciates explaining motion in terms of speed, velocity, acceleration. | 4 | | | |
| 2 | April/Jun e | Matter In Our Surroundings: Defination of matter; Solid liquid & gas; Characteristics - shape, volume, density; change of state - melting, freezing, evaporation, condensation, sublimation. | Appreciates Environment | To determine melting point of ice and boiling point of water. | | | |
| 3 | April/Jun e | The fundamental Unit Of Life Cell as a basic unit of life; prokaryotic and eukaryotic cells, multicellular organisms; cell membrane and cell wall, cell organelles and cell inclusions; chloroplast, mitochondria, vacuoles, endoplasmic reticulum, Golgi apparatus; nucleus, chromosomes - basic structure, number. | Appericate the body organization of both plants & animals | preaparation of stained temporary mounts of(a) onion peel,(b) human cheek cells and to record observations and draw their labelled diagrams. | | | |
| 4 | July | Force and laws of motion Force and Motion, Newton's Laws of Motion, Action and Reaction forces, Inertia of a body, Inertia and mass, Momentum, Force and Acceleration. Elementary idea of conservation of Momentum | Appreciates force using Newton's laws and using the terms like inertia, momentum, action- reaction. Use of momentum in daily life | Determination of the density of solid by using a spring balance and a measuring cylinder. | | | |
| 5 | July / Augus t | Is matter around us Pure Elements, compounds and mixtures. Heterogeneous and homogenous | Environmental sensitivity | To carry out chemical reactions and classify them as physical changes and chemical changes. | | | |

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| | | mixtures, colloids and suspensions | | | |
| 6 | July / August | four types of tissues in animals; | organization of both | Identification of tissue in plants. | Periodic Test-2 |
| 7 | September | 1 | Appreciates force of gravity for rocket/missile | Lab Activities | Periodic Test-2 |
| 8 | October/No vember | | | Determination of the speed of the pulse propogated through a stretched string. | Periodic Test-2 |
| 9 | November / December | Atoms and Molecules: Law of chemical combination, chemical formula of common compounds, atomic and molecular masses. | | Lab Activities | Periodic Test-2 |
| 10 | | Improvements of Food Resources - Plant and animal breeding and selection for quality improvement and management; Use of fertilizers and manuers; Protection from pests and diseases; Organic farming | | Lab Activities | |
| 11 | December | Force, Energy, power; Kinetic and Potential energy; Law of | explanation of energy | Lab Activities | |
| 12 | January | media,speed of sound,range of | | Verification of the law of reflection of sound. | |
| | January / February | Structure of atom - Electrons, Protons & Neutrons, Valency, chemical formula of common | | To seperate components of mixture by sublimation. | |

| 14 | March | TERM-2 EXAMINATION |
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| | | ALL CHAPTERS ARE THERE FOR TERM-2 EXAMINATION |