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| SUBJECT: SCIENCE | | | **SYLLABUS FOR THE ACADEMIC YEAR 2021-2022** | | |
| OPTION: PHYSICS | | |
| GRADE: 9 | | |
| Month | Date | No.of days | Topics | Sub Topics | Lead |
|
| April | 11-15 | 5 | CH 8-Motion | Describing motion.Motion along a straight Line | Mr. Jasif |
| 18-22 | 5 | CH 8-Motion | Uniform motion and non-uniform motion,Measuring rate of motion, |
| 25-29 | 5 | CH 8-Motion | speed |
| May | 2-6 | 5 | CH 8-Motion | speed with direction,Rate of change of velocity,Graphical representation of motion |
| 9-13 | 2 | CH 8-Motion | Distance-Time graph, Velocity -time Graph, |
| 16-20 | 5 | CH 8-Motion | Equation of motion by Graphical Representation.Uniform Circular Motion |
| 23-27 | 5 | CH 9 : Force and Laws of motion | Balanced and unbalanced force,First law of motion,Inertia and mass ,Second law of motion |
| 30-31 | 2 | CH 9 : Force and Laws of motion | Mathematical derivation of second law of motion. |
| June | 1-3 | 3 | CH 9 : Force and Laws of motion | Third law of motion, Conservation of momentum |
| 6-10 | 5 | CH 9 : Force and Laws of motion | Problems related to conservation of momentum |
| 13- 17 | 5 | Revision | Chapter 8 |
| 20-24 | 5 | Revision | Chapter 9 |
| 27-30 | 4 | CH 10 : Gravition | Gravitation, Universal law of gravitation |
| August | 29-31 | 3 | CH 10 : Gravition | Universal law of gravitation |
| September | 1-2 | 2 | CH 10 : Gravition | Motion of objects under the influence of gravitational force of the earth |
| 5-9 | 5 | CH 10 : Gravition | Free fall , To calculate the value of g |
| 12-16 | 5 | CH 10 : Gravition | Mass and weight ,Weight of an object on moon |
| 19- 23 | 5 | **Revision** | |
| 26- 30 | 5 | **First Semester Examination** | |
| October | 3-7 | 5 | **First Semester Examination** | |
| 10 14 | 5 | Chapter 10 : Gravitation | Thrust and pressure ,Pressure in fluid |
| 17 -21 | 4 | Chapter 10 : Gravitation | Buoyancy,Why objects float or sink when placed on the surface of water. |
| 24-28 | 5 | Chapter 10 : Gravitation | Archimede's Principle,Relative density |
| November | 1- 4 | 4 | Chapter 11 : Work and energy | Work ,Scientific concept of work,work done by a constant force |
| 7-11 | 5 | Chapter 11 : Work and energy | Energy, Forms of energy,KE, Potential energy |
| 14- 18 | 5 | Chapter 11 : Work and energy | Potential energy of an object at a height, |
| 21-25 | 5 | Chapter 11 : Work and energy | Law of conservation of energy, Rate of doing work,Commercial unit of energy |
| 28-30 | 3 | Chapter 12 : Sound | Production of sound, Propagation of sound |
| December | 5-9 | 5 | Chapter 12 : Sound | Sound need a medium to propagate, sound waves are longitudinal wave |
| January | 2-6 | 5 | Chapter 12 : Sound | Characteristics of sound,Speed of sound in defferent medium |
| 9-13 | 5 | Chapter 12 : Sound | Reflection of sound,Echo, |
| 16-20 | 5 | Chapter 12 : Sound | Reverbaration,Uses of multiple reflection, |
| 23-27 | 4 | Chapter 12 : Sound | Range of hearing |
| 30-31 | 2 | Chapter 12 : Sound | Aplication of Ultrasound ,sonar |
| February | 1-3 | 3 | Chapter 12 : Sound | Structure of human eye |
| 6-10 | 5 | Revision | Chapter 10 |
| 13-17 | 4 | Revision | Chapter 11 |
| 20-24 | 5 | Revision | Chapter 12 |
| 27-28 | 2 | **Revision** | |
| March | 1-3 | 3 | **Revision** | |
| 6-10 | 5 | **Annual Examination** | |
| 13-17 | 5 | **Annual Examination** | |