

SYLLABUS – 2020 - 21

SUBJECT : SCIENCE

STANDARD : 10

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2. Optics	2.1 Properties of light 2.2 Refraction of Light 2.3 Refraction of composite Light 2.5 Lenses 2.5.1 Other Types of Lens 2.6 Images formed due to refraction through a convex and concave lens 2.7. Refraction through convex lens 2.8 Applications of Convex lens 2.9 Refraction through concave lens 2.10 Applications of concave lens 2.11 Lens Formula 2.12 Sign Convention 2.16 Human eye 2.17 Defects in eye

3. Thermal Physics	<ul style="list-style-type: none">3.1 Temperature<ul style="list-style-type: none">3.1.1 Absolute scale (Kelvin scale) of temperature3.1.2 Thermal equilibrium3.2 Thermal Energy<ul style="list-style-type: none">3.2.1 Characteristic features of heat energy transfer3.2.2 Other units of Heat energy3.4 Fundamental laws of gases<ul style="list-style-type: none">3.4.1 Boyle's law3.4.2 Charles' law3.4.3 Avogadro's law
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5. Acoustics	<ul style="list-style-type: none">5.1 Sound waves<ul style="list-style-type: none">5.1.1 Longitudinal Waves5.1.2 Categories of Sound waves5.1.3 Difference between the sound and light waves5.2 Reflection of sound<ul style="list-style-type: none">5.2.1 Laws of reflection5.2.2 Reflection at the boundary of a denser medium5.2.3 Reflection at the boundary of a rarer medium5.2.4 Reflection of sound in plane and curved surfaces5.3 Echoes<ul style="list-style-type: none">5.3.1 Conditions necessary for hearing echo5.3.2 Applications of echo
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21. Health And Diseases	21.1 Abuse and types of abuse 21.2 Drug and tobacco abuse 21.3 Drug abuse 21.4 Tobacco abuse 21.5 Alcohol abuse 21.6 Rehabilitation measures for alcoholics 21.9 Obesity

	21.11 Cancer 21.12 AIDS
22. Environmental Management	22.1 Conservation and judicious use of Resources 22.5 Renewable and non-renewable Energy Resources 22.6 Non-Conventional (Alternative) Energy Resources 22.6.3 Shale gas 22.6.5 Water energy 22.6.6 Tidal energy 22.7 Rainwater Harvesting 22.8. Electrical Energy Management 22.9 E-Waste and its management
Practical	2. Determination of focal length of a convex lens 3. Determination of resistivity 4. Identification of exothermic and endothermic reactions 5. Testing the solubility of salt 8. Photosynthesis 10.To study the law of dominance 13. Identification of blood cells