



BOKARO PUBLIC SCHOOL

Affiliated to CBSE, New Delhi Upto +2 Level

SEC-3/C, Bokaro Steel City - 827003

SYLLABUS 2025-2026

CLASS: X

SUBJECT: PHYSICS (Code No. 086)

SUBJECT TEACHER: KEDAR KUMAR

| SL. NO | MONTH | WORKING DAY | LESSON STRUCTURE | STATUS |
|--------|-----------|-------------|---|--------|
| 1 | APRIL | 22 | Unit III: Natural Phenomena 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. | |
| 2 | MAY | 07 | Refraction of light by spherical lens; Image formed by spherical lenses; Lens formula (Derivation not required); Magnification. Power of a lens. | |
| 3 | JUNE | 15 | Functioning of a lens in human eye, defects of vision and their corrections, applications of spherical mirrors and lenses. | |
| 4 | JULY | 23 | 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). | |
| 5 | AUGUST | 22 | Unit IV: Effects of Current 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. | |
| 3 | SEPTEMBER | 09 | REVISION | |
| 4 | OCTOBER | 12 | Heating effect of electric current and its applications in daily life. Electric power, Interrelation between P, V, I and R. | |

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| 5 | NOVEMBER | 20 | 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 10 conductors | |
| 6 | DECEMBER | 19 | Fleming's Left Hand Rule, Direct current. Alternating current: frequency of AC. Advantage of AC over DC. Domestic electric circuits. + REVISION | |
| 7 | JANUARY | 17 | PRE-BOARD | |
| 8 | FEBRUARY | | ----- | |