

Physics Syllabus: NCERT

Month	Unit/Chapter/Topic	Pedagogy Tools	E-CONTENT	Learning Outcomes/Skills
April	CH-9 Light: Reflection and Refraction (Upto Plane Mirrors)	Lecture method, brainstorming, Chalk and board, Questioning.	https://youtu.be/XNIDK52wlrQ?si=wW6-yopyqwVEoMSx	- Understand Reflection. - Apply concept of reflection in daily observation. SKILLS: Observation, Conclusion, Drawing and labelling.
May	CH-9 Light: Reflection and Refraction (Spherical Mirrors)	Lecture method, brainstorming, Chalk and board, Questioning.	https://youtu.be/wmImGo8XHtE?si=I-HDyEv5gcV_KII	- Understand application of spherical mirrors. - Make use of mirror formula. - Apply sign conventions correctly.
June	SUMMER VACATIONS			
July	CH-9 Light: Refraction CH-10 Human Eye and Colorful World	Demonstration method, Chalk and board, Questioning, Discussion method.	https://youtu.be/L5ylfTr0pb4?si=bFuoG9Q0toY9TnpX	- Draw ray diagrams and solve numericals of lens. - Calculate power of lens. - Appreciate importance of lens and mirrors. - Explain working of human eye and vision defects. - Discuss Dispersion, atmospheric refraction, and scattering of light. SKILLS: Observation, Conclusion, Drawing and labelling, Critical thinking, Collaboration.
August	CH-11 Electricity	Demonstration method, Chalk and board, Questioning, Discussion method.	https://www.youtube.com/live/7nyvFw6Nge4?si=j6KBq4zyet_j9d-m https://youtu.be/ICP26s5sISM?si=qfSVR8rdWCJQOtSg	- Define current, potential difference, resistance. - Define and calculate resistivity. - Understand ohm's law. SKILLS: Critical thinking, Collaboration.
September	TERM-1 EXAMINATION			
October / November	CH-12 Magnetic Effects of Electric Current	Demonstration method, Chalk and board, Questioning, Discussion method.	https://youtu.be/rtjGH0B-vVA?si=vE0Y2e-n8lyuGTSP	- Demonstrate/analyze magnetic field lines. - Apply Right hand thumb rule, Fleming's left-hand rule, and Fleming's Right-hand rule. SKILLS: Observation, Analysis, Scientific temper.
Dec-Feb	EXAMS			

LAB/HANDS ON ACTIVITIES

- Studying dependence of potential difference (V) on current (I) and plotting V-I graph.

- Determination of focal length of (i) Concave mirror and (ii) Convex lens by obtaining image of a distant object.
- Tracing path of a ray of light through a rectangular glass slab for different angles of incidence (measure angles of incidence, refraction, emergence).
- Tracing path of rays of light through a glass prism.