

CLASS - XII

Subject: Physics

Subject Teacher: K K BAJPAYEE

Chapter Name	NCERT text book Link	YouTube reference video link	NCERT Alternative curriculum activity	Assignment/ Activity
Ch-9 Ray Optics and Optical Instruments	http://epathshala.nic.in/wp-content/doc/book/flipbook/CClass%20XII/12090-Physics%20Part-II/Chapter%2010/index.html	<p><u>Reflection of Light by Spherical Mirror:</u> https://youtu.be/3P_zH09iDg</p> <p><u>Ray optics: Reflection and refraction:</u> https://youtu.be/-z07sDzlc4</p> <p><u>Cartesian Sign convention Mirror:</u> https://youtu.be/7eutept5h0Q</p> <p><u>Solved Examples Mirror Formula</u> https://youtu.be/7eutept5h0Q</p>	<p>1.To find the refractive indices of (a) water (b) oil (transparent) using a plane mirror, an equi convex lens (made from a glass of known refractive index) and an adjustable object needle.</p> <p>2.To observe the difference between (i) a convex lens and a concave lens (ii) a convex mirror and a concave mirror and to estimate the likely difference between the power of two given convex /concave lenses.</p>	Numerical and MCQs based on the topic through
Ch-10 Wave Optics	http://epathshala.nic.in/wp-content/doc/book/flipbook/CClass%20XII/12090-Physics%20Part-II/Chapter%2010/index.html	<p><u>Wave Optics:</u> https://youtu.be/wiD715lo1IM</p> <p><u>Diffraction of light:</u> https://youtu.be/mx2M_ZKXM_c</p> <p><u>Constructive/Destructive interference:</u> https://youtu.be/oTjTXS40pqs</p> <p><u>Electromagnetic waves and the electromagnetic spectrum:</u> https://youtu.be/7eutept5h0Q</p>	<p>1.To observe diffraction of light due to a thin slit.</p> <p>2.To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab.</p>	

		<p><u>Huygens principle</u> https://study.com/academy/lesson/diffraction-huygens-principle.html <u>Polarization of Light:</u> https://youtu.be/HH58VmUbOKM</p>		
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