

# CLASS-10

## PHYSICAL SCIENCE

### UNIT PLAN

#### CHAPTER: 05 – REFRACTION OF LIGHT BY PLANE SURFACES

PERIOD NUMBER	CONCEPTS / TEACHING POINTS	PAGES IN TEXT BOOK		REMARKS
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1.	Refraction of light Refraction – explanation Fermat’s formula Angle of incidence – angle of refraction	93	96	
2.	Refractive index Refractive indexes of some material media Affecting factors of refractive index Relative refractive index	96	97	
3.	Relation between angle of incidence and refraction Rarer media – denser media	97	99	
4.	Refraction – Snell’s law	99	102	
5.	Total internal reflection Critical angle Critical angles of rarer and denser medias	102	104	
6.	Total internal reflection – Examples Optical illusions - mirages	104	105	
7.	Total internal reflection – applications Brilliance of diamonds Optical fibers	106	106	
8.	Refraction through a glass slab Relation between angle of incidence and shift	106	108	
9.	Refraction through a glass slab Finding refractive index of glass slab	108	109	