

CLASS-10
PHYSICAL SCIENCE
LESSON PLAN
CHAPTER: 07 – HUMAN EYE AND COLOURFUL WORLD

PERIOD NUMBER	CONCEPTS / TEACHING POINTS	PAGES IN TEXT BOOK		TEACHING PROCEDURE	TEACHING LEARNING MATERIAL	EVALUATION
		FROM	TO			
1.	Least distance of distinct vision	135	137	Activity	Stand, Wooden scales-2, Thread, A book	What is least distance of distinct vision ? Vamsi is 6 years old. Can he able to see objects kept at 15 cm before her eye ?
2.	Structure of human eye	138	140	Activity	Human eye model, Video clips,	What is accommodation ?
	Focal length of eye lens			Conversation		Maximum focal length of eye lens ? Minimum focal length of eye lens ?
3.	Common defects of vision	140	142	Conversation	Chart, Video clips	Do you have an eye problem ?
	Myopia			Activity	V-stands-2, Screens-2, Convex lens, Concave lens, Candle, Match box, Sketch pen, White papers-4	If the object kept beyond far point, Arun is unable to see it. Identify his eye defect ?
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> <p>NAGA MURTHY- 9441786635 Contact at : nagamurthysir@gmail.com Visit at : ignitephvsics.weebly.com</p> </div>						

4.	Common defects of vision	142	144	Conversation	Chart, Video clips	Do you have an eye problem ?
	Hypermetropia			Activity	V-stands-2, Screens-2, Convex lens -2, Candle, Match box, Sketch pen, White papers-4	If the object kept before near point, Varun is unable to see it. Identify his eye defect ?
	Presbyopia – Power of lens			Conversation	Chart, Video clips	The focal length of a lens is 25 cm. What is the power of that lens ?
5.	Dispersion – scattering	145	145	Activity	Transparent plastic tub, Water, Dettol, Red and green laser pens, Glass prism	What is dispersion ?
	Prism – angle of deviation			Activity		What is scattering ? Why we can't see seven colours in glass slab while refraction ?
6.	Finding angle of deviation of prism	146	147	Lab experiment	Thermocole sheet, Glass prism, Drawing pins-4, Alpins -4, A4 paper-1, Scale, Protractor, Pencil, Graph sheet	How can you determine the refractive index of a prism material ? What is angle of minimum deviation when a light refracted from a glass prism?

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7.	Finding refractive index of prism	147	149	Conversation	Chart	What is the formula for refractive index of the material of a prism ?
	Problems			Conversation		A=60°, D=30° then find the refractive index of prism?
8.	Colours deviation	149	151	Activity	Plastic tray, Water, Plane mirror, White paper, Torch light (powerful white light)	Name the colours in rain bow ?
	Dispersion			Conversation		What is dispersion ? What is the difference between dispersion and scattering ?
9.	Dispersion of light	151	153	Conversation	Chart, Video clips	What is the difference between dispersion and scattering ?
	Rain bow formation - principle					Which processes takes place while formation of rain bow in water drop ?

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10.	Scattering of light	154	155	Activity	Charts, Video clips	Why sky appears blue ?
						What is the colour of sky when it is so hot ?
11.	Dispersion and scattering and Applications	155	156	Activity	Beaker, Hypo, Sulphuric acid, Video clips	Why sun is red in colour in the mornings ?
						How sun appears in noon time ?

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