

**THE WISDOM GLOBAL SCHOOL**

**SYLLABUS BIFURCATION**

**GRADE 10**

**SUBJECT:- PHYSICS**

**NAME OF BOOK: S. CHAND PHYSICS**

**YEAR 2024-25**

**NAME OF THE TEACHER:- MR. SUMIT KUMAR PANDEY**

S.NO	BOOK NAME	MONTH	CHAPTER NUMBER	CHAPTER NAME	SUB-TOPICS	NO. OF DAYS REQUIRED	ACTIVITY	MATERIAL REQUIRED (IF ANY)	ANIMATED VIDEO LINK	CHARTS
1	S. CHAND PHYSICS	APRIL	1	REFLECTION AND REFRACTION	REFLECTION OF LIGHT	1	TO DEMONSTRATE THE PHENOMENON OF REFLECTION OF LIGHT	PLAIN MIRROR AND LASER LIGHT	<a href="https://video.wixstatic.com/video/f29914_2a47eb842e6c43d593f7cbfd6ee42f7e/720p/mp4/file.mp4">https://video.wixstatic.com/video/f29914_2a47eb842e6c43d593f7cbfd6ee42f7e/720p/mp4/file.mp4</a>	
					LAWS OF REFLECTION OF LIGHT	1	DEMONSTRATION OF LAWS OF REFLECTION	PLAIN MIRROR AND LASER LIGHT	<a href="https://video.wixstatic.com/video/f29914_2a47eb842e6c43d593f7cbfd6ee42f7e/720p/mp4/file.mp4">https://video.wixstatic.com/video/f29914_2a47eb842e6c43d593f7cbfd6ee42f7e/720p/mp4/file.mp4</a>	
					REFLECTION OF LIGHT BY CURVED SURFACES	1	REFLECTION BY SHINING SPOON	SPOON		
					IMAGES FORMED BY CURVED MIRRORS	4	Determination of the focal length of: Concave and convex mirror by obtaining the image of a distant object.	CONCAVE & CONVEX MIRROR,MIRROR STAND,SCREEN,A4 SIZE WHITE PAPER		YES
2	S. CHAND PHYSICS	MAY	1	REFLECTION AND REFRACTION	MIRROR FORMULA	2	FORMATION OF IMAGE OF SUN	CONCAVE MIRROR ,SCREEN,WHITE PAPER		
					MAGNIFICATION TEST	2				
						1				
					REFRACTION OF LIGHT	1	REFRACTION OF LIGHT BY GLASS SLAB	GLASS SLAB, DRAWING BOARD,PINS,RULER,PENCIL		
					LAWS OF REFRACTION OF LIGHT	2	Tracing the path of a ray of light passing through a rectangular glass slab for different angles of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result.			
	2	REFRACTION OF LIGHT BY LENS	CONVEX AND CONCAVE LENS							

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3	S. CHAND PHYSICS	JUNE			REFRACTION OF LIGHT BY CURVED SURFACES	2	Determination of the focal length of: Convex lens by obtaining the image of a distant object.			
					MAGNIFICATION AND POWER OF LENS	2	TO DEMONSTRATE THE POWER OF LENS			
					NUMERICAL PRACTICE	3				
4	S. CHAND PHYSICS	JULY	2	HUMAN EYE AND COLOURFUL WORLD	PARTS AND FUNCTION OF HUMAN EYE	3	DEMONSTRATION OF HUMAN EYE AND ITS PARTS	HUMAN EYE MODEL	<a href="https://video.wixstatic.com/video/f29914_06898679bd62487f83a96bd088d3583d/720p/mp4/file.mp4">https://video.wixstatic.com/video/f29914_06898679bd62487f83a96bd088d3583d/720p/mp4/file.mp4</a>	YES
					EYE DEFFECTS AND THEIR CORRECTIONS	3				YES
					APPLICATIONS OF CURVED MIRRORS AND LENSES	2				
					REFRACTION AND DISPERSION OF LIGHT THROUGH PRISM	2	Tracing the path of the rays of light through a glass prism.	GLASS PRISM, DRAWING BOARD, PINS, RULER, A4 SIZE PAPER	YES	
					TEST	1				
					SCATTERING OF LIGHT AND ITS APPLICATIONS IN DAILY LIFE	3	SCATTERING & TYNDALL EFFECT	DARK ROOM, TORCH LIGHT		
QUESTION ANSWER DISCUSSION	3									
5	S. CHAND PHYSICS	AUGUST	3	ELECTRICITY	ELECTRIC CURRENT AND POTENTIAL DIFFERENCE	3	Studying the dependence of potential difference (V) across a resistor on the current (I) passing through it and determine its resistance. Also plotting a graph between V and I.		<a href="https://video.wixstatic.com/video/f29914_b2f9e5767a534a3cacf391db1c587bad/720p/mp4/file.mp4">https://video.wixstatic.com/video/f29914_b2f9e5767a534a3cacf391db1c587bad/720p/mp4/file.mp4</a>	
<b>MID TERM ASSESSMENT</b>										
6	S. CHAND PHYSICS	SEPTEMBER			OHM'S LAW	2	DEMONSTRATION OF OHM'S LAW			
7	S. CHAND PHYSICS	OCTOBER			RESISTANCE AND THEIR COMBINATIONS	4	Determination of the equivalent resistance of two resistors when connected in series and parallel.			
					HEATING EFFECT OF ELECTRIC CURRENT	2	HEATING NICHROME WIRE ACTIVITY	NICHROME WIRE		
					POWER, RELATION BETWEEN V & I	2				

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					NUMERICAL DISCUSSION	2				
8	S. CHAND PHYSICS	NOVEMBER	4	MAGNETIC EFFECTS OF CURRENT	MAGNETIC FIELD AND MAGNETIC FIELD LINES	2	DEMONSTRATION OF MAGNETIC FIELD	IRON FILLING, BAR MAGNET, DRAWING BOARD, A4 SIZE PAPER	<a href="https://video.wixstatic.com/video/f29914_4ecfc182caa54d94b1218cf0565c35f6/720p/mp4/file.mp4">https://video.wixstatic.com/video/f29914_4ecfc182caa54d94b1218cf0565c35f6/720p/mp4/file.mp4</a>	YES
					MAGNETIC FIELD DUE TO CURRENT CARRYING CONDUCTOR	1	DEMONSTRATION OF MAGNETIC FIELD	CURRENT CARRYING WIRE AND COMPASS NEEDLE		YES
					MAGNETIC FIELD DUE TO CURRENT CARRYING COIL	1	DEMONSTRATION OF MAGNETIC FIELD BY COIL	COPPER COIL AND MAGNETIC COMPASS		YES
					MAGNETIC FIELD DUE TO CURRENT CARRYING SOLENOID	1	DEMONSTRATION OF MAGNETIC FIELD BY SOLENOID	SOLENOID COIL AND MAGNETIC COMPASS		
					MAGNETIC FORCE DUE TO CURRENT CARRYING CONDUCTOR, FLEMING'S LEFT HAND RULE	1	DEMONSTRATION OF MAGNETIC FORCE	ALUMINIUM WIRE, STAND, HORSE SHOE MAGNET		
					DC AND AC CURRENTS	1				
					DOMESTIC ELECTRIC CIRCUIT	1	FORMATION OF DOMESTIC ELECTRIC CIRCUIT			YES
9		DECEMBER			REVISION/PRE-BOARD	9				
10		JANUARY			REVISION/PRE-BOARD	5				
11		FEBRUARY			REVISION/PRE-BOARD	10				
ANNUAL ASSESSMENT										