THE WISDOM GLOBAL SCHOOL										
SYLLABUS BIFURCATION										
GRADE -9										
SUBJECT:- SCIENCE										
NAME OF BOOKS: NCERT AND PHYSICS BY LAKHMIR SINGH AND MANJIT KAUR										
YEAR 2024-25										
NAME OF THE TEACHER:- Ms. SHIKHA KAUSHIK										
S.NO	**BOOK NAME**	**MONTH**	**CHAPTER NUMBER**	**CHAPTER NAME**	**SUB-TOPICS**	**NO. OF DAYS REQUIRED**	**ACTIVITY**	**MATERIAL REQUIRED (IF ANY)**	**CHARTS**	**ANIMATED VIDEO LINK**
1	PART-1 PHYSICS BY LAKHMIR SINGH AND MANJIT KAUR	APRIL	1	MOTION	INTRODUCTION	1				
					DISTANCE TRAVELLED AND DISPLACEMENT	1	TO MEASURE THE DISTANCE COVERED BY YOU AND MAGNITUDE OF DISPLACEMENT		NO	
					DISTANCE TRAVELLED AND DISPLACEMENT	1				https://video.wixstatic.com/video/f29914_839686ea29434b77b07862ae06a48516/720p/mp4/file.mp4
					UNIFORM MOTION AND NON UNIFORM MOTION	1	TAKE A PIECE OF THREAD AND TIE A SMALL PIECE OF STONE AT ONE OF ITS ENDS.MOVE THE STONE TO DESCRIBE A CIRCULAR PATH.	A THREAD, A SMALL PIECE OF STONE		
					SPEED	1				
					UNIFORM SPEED	1	TO EXAMINE THE DATA REGARDING THE MOTION OF TWO DIFFERENT OBJECTS A AND B, STATE WHETHER THE MOTION IS UNIFORM OR NOT	GIVEN DATA		
					UNIFORM SPEED	1				
					VELOCITY	1				
					VELOCITY	1				

S.NO	BOOK NAME	MONTH	CHAPTER NUMBER	CHAPTER NAME	SUB-TOPICS	NO. OF DAYS REQUIRED	ACTIVITY	MATERIAL REQUIRED (IF ANY)	CHARTS	ANIMATED VIDEO LINK
		APRIL			VELOCITY	1				
					ACCELERATION	1				
					NON UNIFORM MOTION	1				
					AVERAGE VELOCITY	1				
					DISCUSSION OF BOOK EXERCISES	1				
					DISCUSSION OF BOOK EXERCISES	1				
					DISCUSSION OF BOOK EXERCISES	1				
					EQUATION OF UNIFORMLY ACCELARATED MOTION	1				
					GRAPHICAL REPRESENTATION OF MOTION	1				
		MAY			GRAPHICAL REPRESENTATION OF MOTION	1				
					GRAPHICAL REPRESENTATION OF MOTION	1				
					TO DERIVE EQUATION OF MOTION	1				
					TO DERIVE EQUATION OF MOTION	1				
					UNIFORM CIRCULAR MOTION	1				
					UNIFORM CIRCULAR MOTION	1				
					DISCUSSION OF REVISION EXERCISES	1				
					DISCUSSION OF REVISION EXERCISES	1				
					DISCUSSION OF REVISION EXERCISES	1				

S.NO	BOOK NAME	MONTH	CHAPTER NUMBER	CHAPTER NAME	SUB-TOPICS	NO. OF DAYS REQUIRED	ACTIVITY	MATERIAL REQUIRED (IF ANY)	CHARTS	ANIMATED VIDEO LINK
2	PART-1 PHYSICS BY LAKHMIR SINGH AND MANJIT KAUR	MAY	2	FORCE AND LAWS OF MOTION	FORCE AND ITS EFFECTS	1			YES	
					FORCE AND ITS EFFECTS	1	TO SHOW EFFECTS OF FORCE ON A SPRING AND ARUBBER BALL.	A SPRING , A RUBBER BALL		
					BALANCED AND UNBALANCED FORCES	1				
					BALANCED AND UNBALANCED FORCES	1				
					NEWTONS LAW OF MOTION	1	TO SHOW THE LAW OF INERTIA IN A GLASS FULL OF WATER COVERED WITH A CARD ,BY FLICKING WITH THE FINGER THE COIN PLACED OVER IT	A GLASS FULL OF WATER, A CARD, A COIN		
					MOMENTUM	1				
					DISCUSSION OF BOOK EXERCISES	1				https://video.wixstatic.com/video/f29914_5c5b8760021848a7a6e5b7c553af6dd9/720p/mp4/file.mp4
					NEWTONS SECOND LAW OF MOTION	1	TO SHOW HOW A PLAYER PULLS HIS HAND WITH THE MOVING BALL, SHOWING SECOND LAO OF MOTION	A BALL		
					APPLICATION OF NEWTONS SECOND LAW	1				
		JULY			NEWTONS THIRD LAW OF MOTION	1	TO SHOW ACTION AND REACTION FORCE ARE EQUAL USING SPRING BALANCE	TWO SPRING BALANCES		
					NEWTONS THIRD LAW OF MOTION	1				
					CONSERVATION OF MOMENTUM	1				
					APPLICATIONS OF LAW OF CONSERVATION	1				
					APPLICATIONS OF LAW OF CONSERVATION	1				
					DISCUSSION OF BOOK EXERCISES	1				
					DISCUSSION OF BOOK EXERCISES	1				
					DISCUSSION OF BOOK EXERCISES	1				

S.NO	BOOK NAME	MONTH	CHAPTER NUMBER	CHAPTER NAME	SUB-TOPICS	NO. OF DAYS REQUIRED	ACTIVITY	MATERIAL REQUIRED (IF ANY)	CHARTS	ANIMATED VIDEO LINK
3	PART-1 PHYSICS BY LAKHMIR SINGH AND MANJIT KAUR	JULY	3	GRAVITATION	GRAVITATION	1				
					UNIVERSAL LAW OF GRAVITAION	1	TO STUDY A CIRCULAR PATH USING A THREAD WITH A STONE TIED AT THE END			
					UNIVERSAL LAW OF GRAVITAION	1				
					GRAVIATTIONAL FORCE AND SOLAR SYSTEM	1			YES	
					KEPLERS LAW OF PLANETARY MOTION	1				
					NEWTONS THIRD LAW OF MOTION	1	TO STUDY THE MOTION OF AN OBJECT UNDER THE INFLUENCE OF GRAVITY.	A SHEET OF PAER, A STONE		
					ACCELERATION DUE TO GRAVITY	1				
					VARIATION OF ACCELERATION DUE TO GRAVITY	1				
		AUGUST		GRAVITATION	EQUATION OF MOTION FOR FREELY FALLING BODIES	1				
					DISCUSSION OF BOOK EXERCISES	1				
					MASS AND WEIGHT	1				
					DISCUSSION OF BOOK EXERCISES	1				
					DISCUSSION OF BOOK EXERCISES	1				
					THRUST AND PRESSURE	1				
					DISCUSSION OF BOOK EXERCISES	1				
					EVERYDAY OBSERVATION ON PRESSURE	1				
					PRESSURE IN FLUIDS					

S.NO	BOOK NAME	MONTH	CHAPTER NUMBER	CHAPTER NAME	SUB-TOPICS	NO. OF DAYS REQUIRED	ACTIVITY	MATERIAL REQUIRED (IF ANY)	CHARTS	ANIMATED VIDEO LINK
						1				
					FACTORS AFFECTING BUOYANT FORCE	1	TO STUDY THE EFFECT OF AN EMPTY PLASTIC BOTTLE , KEEPING THE MOUTH OF BOTTLE WITH AN AIRTIGHT STOPPER	A BPLASTIC BOTTLE		
					ARCHIMEDES PRINCIPLE	1				https://video.wixstatic.com/video/f29914_b624fbcfbd704bf0b62205e67acd653e/720p/mp4/file.mp4
		AUGUST		GRAVITATION	PRINCIPLE OF FLOATATION	1	TO STUDY THE SINKING AND FLOATATION USING AN IRON NAIL AND A CORK	AN IRON NAIL, A CORK	YES	
					PRINCIPLE OF FLOATATION	1				
					DENSITY AND RELATIVE DENSITY	1	TO STUDY THE ELONGATION OF STRING USING A SPRING BALANCE	A RUBBER BAND, STRING,STONE, SPRING BALANCE		
					DENSITY AND RELATIVE DENSITY	1				
					DISCUSSION OF BOOK EXERCISES	1				
					DISCUSSION OF BOOK EXERCISES	1				
	PART-1 PHYSICS BY LAKHMIR SINGH AND MANJIT KAUR	AUGUST			REVISION	1				
					REVISION	1				
					REVISION	1				
					REVISION	1				
					REVISION	1				
					REVISION	1				
					REVISION	1				
					REVISION	1				
					REVISION					
	MID TERM ASSESSMENTS									
		SEPTEMBER			MID TERM EXAMINATIONS					
					MID TERM EXAMINATIONS					
					MID TERM EXAMINATIONS					
					MID TERM EXAMINATIONS					
					MID TERM EXAMINATIONS					
					MID TERM EXAMINATIONS					
					MID TERM EXAMINATIONS					
					MID TERM EXAMINATIONS					
					MID TERM EXAMINATIONS					

S.NO	BOOK NAME	MONTH	CHAPTER NUMBER	CHAPTER NAME	SUB-TOPICS	NO. OF DAYS REQUIRED	ACTIVITY	MATERIAL REQUIRED (IF ANY)	CHARTS	ANIMATED VIDEO LINK
		SEPTEMBER			MID TERM EXAMINATIONS					
					MID TERM EXAMINATIONS					
					MID TERM EXAMINATIONS					
					MID TERM EXAMINATIONS					
					MID TERM EXAMINATIONS					
					MID TERM EXAMINATIONS					
					MID TERM EXAMINATIONS					
					MID TERM EXAMINATIONS					
4	PART-1 PHYSICS BY LAKHMIR SINGH AND MANJIT KAUR	OCTOBER		WORK ENERGY	WORK	1			NO	
					WORK AGAINST GRAVITY	1				
					WORK DONE OBLIQUELY	1				
					DIFFERENT WORK DONE CASES	1				https://video.wixstatic.com/video/f29914_e166235691d8452f81b8004e2e9502e7/720p/mp4/file.mp4
					DIFFERENT WORK DONE CASES	1				
					ENERGY	1				
					KINETIC ENERGY	1	TO SHOW THE EFFECT OF HEIGHT ON A SAND BED BY DROPPING OBJECTS FROM CERTAIN HEIGHT.	SAND BED, A HEAVY BALL		
					SOME IMPORTANT CONCLUSIONS	1				
					DISCUSSION OF BOOK EXERCISES	1	TO SHOW A RUBBER BAND POSSESS POTENTIAL ENERGY.	A RUBBER BAND		
		NOVEMBER			POTENTIAL ENERGY	1	TO SHOW THE SPRING BALNCE POSSESSES POTENTIAL ENERGY.	A SPRING BALNCE		
					FORMULA FOR POTENTIAL ENERGY	1				
					DISCUSSION OF BOOK EXERCISES	1				
					DISCUSSION OF BOOK EXERCISES	1				
					POWER	1				
					UNIT OF POWER	1				
					DISCUSSION OF BOOK EXERCISES	1				
					COMMERCIAL UNIT OF ENERGY	1				

S.NO	BOOK NAME	MONTH	CHAPTER NUMBER	CHAPTER NAME	SUB-TOPICS	NO. OF DAYS REQUIRED	ACTIVITY	MATERIAL REQUIRED (IF ANY)	CHARTS	ANIMATED VIDEO LINK
					TRANSFORMATION OF ENERGY	1	TO DISCUSS THE VARIOUS WAYS OF ENERGY CONVERSIONS IN NATURE.			
					USING ENERGY CONVERTERS	1				
					LAW OF CONSERVATION OF ENERGY	1				
		NOVEMBER			DISCUSSION OF BOOK EXERCISES	1				
					DISCUSSION OF BOOK EXERCISES	1				
					DISCUSSION OF BOOK EXERCISES	1				
						1				
						1				
5	PART-1 PHYSICS BY LAKHMIR SINGH AND MANJIT KAUR	DECEMBER	5	SOUND	SOUND TRAVELS IN THE FORM OF WAVES	1				
					SOUND WAVES ARE LONGITUDINAL WAVES	1	TO STUDY THE VIBRATIONS PRODUCED BY THE TUNING FORK.	A TUNING FORK, A RUBBER PAD		
					SOUND WAVES ARE LONGITUDINAL WAVES	1	TO STUDY THE VIBRATIONS IN A BEAKER FULL OF WATER.	A GLASS FULL OF WATER, A TUNING FORK	NO	
					CHARACTERISTICS OF A SOUND WAVE	1				
					CHARACTERISTICS OF A SOUND WAVE	1	TO STUDY THE COMPRESSIONS AND RAEFRACTIONS IN A SPRING.			
					PRODUCTION OF SOUND	1				
					PRODUCTION OF SOUND	1				
					SOUND CAN TRAVEL THROUGH SOLIDS	1	TO STUDY THE SOUND PASSING THROUGH TWO PIPES, KEEPING A CLOCK NEAR THE OPEN END.	TWO PIPES USING CHART PAPER, A CLOCK		
					SPEED OF SOUND	1				

S.NO	BOOK NAME	MONTH	CHAPTER NUMBER	CHAPTER NAME	SUB-TOPICS	NO. OF DAYS REQUIRED	ACTIVITY	MATERIAL REQUIRED (IF ANY)	CHARTS	ANIMATED VIDEO LINK
					SONIC BOOM	1				
					DISCUSSION OF BOOK EXERCISES	1				https://video.wixstatic.com/video/f29914_8535f92635ec46249e7f89f510a15ee8/720p/mp4/file.mp4
		DECEMBER			DISCUSSION OF BOOK EXERCISES	1				
					REFLECTION OF SOUND	1				
					REFLECTION OF SOUND	1	TO STUDY THE SOUND PRODUCED WITHIN THE BODY USING A STETHOSCOPE	A STETHOSCOPE		
					ECHO	1				
					ECHO	1				
					REVERBERATION	1				
					FREQUENCY RANGE OF HEARING	1				
					ULTRASOUND	1				
					ULTRASOUND	1				
					SONAR	1				
		DECEMBER			CHARACTERISTICS OF A SOUND WAVE	1				
					CHARACTERISTICS OF A SOUND WAVE	1				
					THE HUMAN EAR	1	TO STUDY MODEL OF THE HUMAN EAR		YES	
					WORKING OF HUMAN EAR	1				
					WORKING OF HUMAN EAR	1				
	PART-1 PHYSICS BY LAKHMIR SINGH AND MANJIT KAUR				DISCUSSION OF BOOK EXERCISES	1				
		JANUARY			DISCUSSION OF BOOK EXERCISES	1				
					REVISION	1				
					REVISION	1				
					REVISION	1				
					REVISION	1				
					REVISION	1				
	FINAL TERM ASSESSMENTS									