



Sir Padampat Singhania Education Centre

Kamla Nagar, Kanpur

**Lesson Plan
Session 2023 - 2024
Class: IX**

Subject Book : **Physics**
: **Science (NCERT) - IX**

Subject Coordinator
Name: Er. Hemant Verma

Sign:

Head of Department
Name: Ms. Agnita Naha

Sign:



Sir Padampat Singhania Education Centre

Kamla Nagar, Kanpur

Yearly Syllabus/Planning overview

Session: 2023 - 2024

Subject: Physics

Class : 9

No. of periods: 71

Month	Assessed in	Lesson/s to be covered	Period Count
April	No Partial assessment	Motion (Partly)	9
May	Test I + Annual Exams	Motion (Full)	6
May	No Partial assessment	Force and Laws of Motion (Partial)	2
June	No Partial assessment	Force and Laws of Motion (Partial)	2
July	Test II + Annual Exams	Force and Laws of Motion (Full)	8
July	No Partial assessment	Gravitation (Partial)	1
August	No Partial assessment	Gravitation (Partial)	7
September	Test III + Annual Exams	Gravitation (Full)	7
September	No Partial assessment	Work and Energy (Partial)	1
October	Annual Exams	Work and Energy (Full)	9
November	No Partial assessment	Sound (Partial)	8
December	Annual Exams	Sound (Full)	3
December		Practical	3
January		Revision	5

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Monthly lesson plan overview

Session: 2023 - 2024

Subject : Physics

Class : 9

Book : Science (NCERT) - 9

No. of periods : 71

Date/Week		Lesson/s to be covered in classroom	Period Count	Status (Yes/No) (Reason if No)
From	To			
03.04.23	08.04.23	Introduction: Motion + Describing Motion	1	
10.04.23	15.04.23	Uniform and Non-Uniform Motion + Speed and Velocity	2	
17.04.23	22.04.23	Rate of Change of Velocity	3	
24.04.23	29.04.23	Graphical Representation of Motion	3	
01.05.23	06.05.23	Graphical Representation of Motion + Equations of Motion	2	
08.05.23	13.05.23	Equations of Motion	2	
15.05.23	20.05.23	Uniform Circular Motion + Back Question Answers + Introduction: Force and laws of Motion	3	
22.05.23	27.05.23	Balanced and Unbalanced Forces	1	
29.05.23	03.06.23	Contact and Non-Contact Forces + Summer Break	1	
05.06.23	10.06.23	Summer Break	0	
12.06.23	17.06.23	Summer Break	0	
19.06.23	24.06.23	Summer Break	0	
26.06.23	01.07.23	1 st Law of Motion + 2 nd Law of Motion	3	
03.07.23	08.07.23	2 nd Law of Motion + 3 rd Law of Motion	3	
10.07.23	15.07.23	Conservation of Momentum + Numerical	2	
17.07.23	22.07.23	Revision of Test I + Test I	2	

24.07.23	29.07.23	Test I + Back Exercises + Intext Questions	2	
31.07.23	05.08.23	Introduction: Gravitation + Free Fall	3	
07.08.23	12.08.23	Mass + Weight + Thrust	3	
14.08.23	19.08.23	Pressure + Buoyancy	2	
21.08.23	26.08.23	Revision of Test II + Test II	1	
28.08.23	02.09.23	Test II	0	
04.09.23	09.09.23	Floatation + Density + Archimedes' Principle	3	
11.09.23	16.09.23	Relative Density + Numerical	3	
18.09.23	23.09.23	Back Exercises + Intext Questions + Introduction: Work	2	
25.09.23	30.09.23	Revision of Test III + Test III	1	
02.10.23	07.10.23	Introduction: Energy + Forms of Energy: Kinetic Energy	2	
09.10.23	14.10.23	Forms of Energy: Potential Energy + Law of Conservation of Energy	3	
16.10.23	21.10.23	Rate of Doing Work + Commercial Unit of Energy + Numericals	3	
23.10.23	28.10.23	Dussehra Holidays	0	
30.10.23	04.11.23	Back Question and Answers + Introduction: Sound: Production and Propagation + Longitudinal Waves	3	
06.11.23	11.11.23	Characteristics of Sound Waves	1	
13.11.23	18.11.23	Speed of Sound in Different Medium + Reflection of Sound + Echo + Reverberation	2	
20.11.23	25.11.23	Applications of Multiple Reflection of Sound + Application of Ultrasound + SONAR	3	
27.11.23	02.12.23	Annual Function	0	
04.12.23	09.12.23	Structure of Human Ear + Numericals + Back Question and Answers	3	

11.12.23	16.12.23	Practical	3	
18.12.23	23.12.23	Revision	3	
25.12.23	30.12.23	Revision	3	
01.01.24	06.01.24	Winter Break	0	
08.01.24	13.01.24	Winter Break + Revision	1	
15.01.24	20.01.24	Revision	2	
22.01.24	27.01.24	Revision	2	
29.01.24	03.02.24	Revision	2	
05.02.24	10.02.24	Revision	2	

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Weekly planning overview
Session: 2023 - 2024

Subject : Physics
Class : 9

No. of periods : 71

Period	Topic/s to be covered in classroom	Homework	Status (Yes/No) (Reason if No)
WEEK 01: 03/4/23 to 08/4/23		Period Count: 01	
PD1	Introduction: Motion + Rest + Motion along a straight line	In-text questions pg. 100	
WEEK 02: 10/4/23 to 15/4/23		Period Count: 02	
PD1	Uniform and Non-Uniform Motion	Read till discussed	
PD2	Speed and Velocity	In-text questions pg. 102	
WEEK 03: 17/4/23 to 22/4/23		Period Count: 03	
PD1	Rate of Change of Velocity	Read till discussed	
PD2	Rate of Change of Velocity Contd...	In-text questions pg. 103	
PD3	Rate of Change of Velocity Contd...	Read till discussed	
WEEK 04: 24/4/23 to 29/4/23		Period Count: 03	
PD1	Graphical Representation of Motion: Distance-Time Graph	Read till discussed	
PD2	Graphical Representation of Motion: Displacement-Time Graph	In-text questions pg. 107	
PD3	Graphical Representation of Motion: Velocity-Time Graph	Read till discussed	
WEEK 05: 1/5/23 to 6/5/23		Period Count: 02	
PD1	Numerical of Graphical Representation of Motion	Read till discussed	
PD2	Equations of Motion	Read till discussed	
WEEK 06: 8/5/23 to 13/5/23		Period Count: 02	

PD1	Equations of Motion Contd...	In-text questions pg. 110	
PD2	Equations of Motion Contd...	Read till discussed	
WEEK 07: 15/5/23 to 20/5/23		Period Count: 03	
PD1	Uniform Circular Motion	Read till discussed	
PD2	Back Questions and Answers discussed	Back Questions and Answers	
PD3	Introduction: Force and laws of Motion	Read till discussed	
WEEK 08-09: 22/5/23 to 03/6/23		Period Count: 02	
PD1	Balanced and Unbalanced Forces	Read till discussed	
PD2	Contact and Non-Contact Forces	Read till discussed	
WEEK 10 - 12: 05/6/23 to 24/5/23		Period Count: 00	
Summer Break			
WEEK 16: 26/6/23 to 01/7/23		Period Count: 03	
PD1	First Law of Motion	Read till discussed	
PD2	First Law of Motion (Numerical) + Intertia and Mass	In-text questions pg. 118	
PD3	2 nd Law of Motion	Read till discussed	
WEEK 17: 3/7/23 to 8/7/23		Period Count: 03	
PD1	Mathematical Equation on 2 nd Law	Read till discussed	
PD2	3 rd Law of Motion	Read till discussed	
PD3	Numerical of 2 nd and 3 rd Equation of Motion	Practice	
WEEK 18: 10/7/23 to 15/7/23		Period Count: 02	
PD1	Conservation of Momentum	Read till discussed	
PD2	Numerical on Conservation of Momentum	In-text questions pg. 126	

WEEK 19: 17/7/23 to 22/7/23			Period Count: 02
PD1	Revision of Test I + Test I	Revise for Test I	
PD2	Revision of Test I + Test I	Revise for Test I	
WEEK 20: 24/7/23 to 29/7/23			Period Count: 02
PD1	Test I + Back Question and Answers	Back Question and Answers	
PD2	In-Text Questions	Practice	
WEEK 21: 31/7/23 to 5/8/23			Period Count: 03
PD1	Introduction: Gravitation + Universal Law of Gravitation	Read till discussed	
PD2	Importance of Universal Law of Gravitation	In-text questions pg. 134	
PD3	Free Fall + Calculate the value of 'g'	Read till discussed	
WEEK 22: 7/8/23 to 12/8/23			Period Count: 03
PD1	Motion of Object under the influence of Gravitational Force of the Earth	In-text questions pg. 136	
PD2	Mass + Weight	In-text questions pg. 138	
PD3	Thrust	Read till discussed	
WEEK 23: 14/8/23 to 19/8/23			Period Count: 02
PD1	Pressure	Read till discussed	
PD2	Buoyancy	Numerical	
WEEK 24: 21/8/23 to 26/8/23			Period Count: 01
PD1	Revision of Test II	Revise	
WEEK 25: 28/8/23 to 02/9/23			Period Count: 00
Test II			
WEEK 26: 04/9/23 to 9/9/23			Period Count: 03

PD1	Floatation	Read till discussed	
PD2	Density	In-text questions pg. 141	
PD3	Archimedes' Principle	In-text questions pg. 142	
WEEK 27: 11/9/23 to 16/9/23		Period Count: 03	
PD1	Relative Density	Read till discussed	
PD2	Relative Density Contd...	Read till discussed	
PD3	Numerical	Numerical	
WEEK 28: 18/9/23 to 23/9/23		Period Count: 02	
PD1	In-text Questions and Back Questions and Answers discussed	Back Question and Answers	
PD2	Introduction: Work	In-text questions pg. 148 + In-text questions pg. 149	
WEEK 29: 25/9/23 to 30/9/23		Period Count: 01	
PD1	Revision of Test III	Revise	
WEEK 30: 02/10/23 to 7/10/23		Period Count: 02	
PD1	Introduction: Energy	Read till discussed	
PD2	Forms of Energy: Kinetic Energy	In-text questions pg. 152	
WEEK 31: 9/10/23 to 14/10/23		Period Count: 03	
PD1	Forms of Energy: Potential Energy	Read till discussed	
PD2	Law of Conservation of Energy	Read till discussed	
PD3	Law of Conservation of Energy Contd...	Practice	
WEEK 32: 16/10/23 to 21/10/23		Period Count: 03	
PD1	Rate of Doing Work	In-text questions pg. 156	
PD2	Commercial Unit of Energy	Read till discussed	

PD3	Numerical	Numerical	
WEEK 33: 23/10/23 to 28/10/23		Period Count: 00	
Dusshera Holidays			
WEEK 34: 30/10/23 to 4/11/23		Period Count: 03	
PD1	Back Question and Answers discussed	Back Question and Answers	
PD2	Introduction: Sound: Production and Propagation	In-text questions pg. 162	
PD3	Longitudinal Waves	In-text questions pg. 163	
WEEK 35: 6/11/23 to 11/11/23		Period Count: 01	
PD1	Characteristics of Sound Waves	In-text questions pg. 166 – I	
WEEK 36: 13/11/23 to 18/11/23		Period Count: 02	
PD1	Speed of Sound in Different Medium	In-text questions pg. 166 – II	
PD2	Reflection of Sound + Echo + Reverberation	In-text questions pg. 168	
WEEK 37: 20/11/23 to 25/11/23		Period Count: 03	
PD1	Applications of Multiple Reflection of Sound	In-text questions pg. 169	
PD2	Application of Ultrasound	In-text questions pg. 170	
PD3	SONAR	In-text questions pg. 172	
WEEK 38: 27/11/23 to 02/12/23		Period Count: 00	
Annual Function			
WEEK 39: 4/12/23 to 9/12/23		Period Count: 01	
PD1	Structure of Human Ear	Read till discussed	
PD2	Numericals	Numericals	
PD3	Back Question and Answers discussed	Back Question and Answers	

WEEK 40: 11/12/23 to 16/12/23			Period Count: 03
PD1	Practicals	Complete the Practical in Notebook	
PD2	Practicals	Complete the Practical in Notebook	
PD3	Practicals	Complete the Practical in Notebook	
WEEK 41: 18/12/23 to 23/12/23			Period Count: 03
PD1	Revision	Revision	
PD2	Revision	Revision	
PD3	Revision	Revision	
WEEK 42: 25/12/23 to 30/12/23			Period Count: 03
PD1	Revision	Revision	
PD2	Revision	Revision	
PD3	Revision	Revision	
WEEK 43: 1/1/24 to 6/1/24			Period Count: 00
Winter Break			
WEEK 44: 8/1/24 to 13/1/24			Period Count: 01
PD1	Revision	Revision	
WEEK 45: 15/1/24 to 20/1/24			Period Count: 02
PD1	Revision	Revision	
PD2	Revision	Revision	
WEEK 46: 22/1/24 to 27/1/24			Period Count: 01
PD1	Revision	Revision	

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