



Sir Padampat Singhania Education Centre
Kamla Nagar, Kanpur

Lesson Plan
Session 2026 - 2027
Class: X

Subject : Science (086)
Book : NCERT

Subject Coordinator
Name: Hemant Verma

Head of Department
Name: Agnita Naha

Sign:

Sign:



Sir Padampat Singhania Education Centre

Kamla Nagar, Kanpur

Yearly Syllabus/Planning overview

Session: 2026 - 2027

Subject : Science 086

Class : 10

No. of periods : 217 (145 + 72)

Month	Assessed in	Lesson/s to be covered	Period Count
April	PT1/ Half Yearly / Pre-Boards	Chemical Reactions and Equations	12
April	PT1/ Half Yearly / Pre-Boards	Life Processes (Partial)	11
April	PT1/ Half Yearly / Pre-Boards	Light (Partial)	02
April	Total Periods	12 + 11 + 02 = 25	
May	Revision PT1	05	
May	PT2 / Half Yearly/ Pre-Boards	Light (Complete)	04 + 03 = 07
May	PT2 / Half Yearly/ Pre-Boards	Life Processes (Complete)	04
May		Acids, Bases and Salts (Partial)	06
May	Total Periods	05 + 07 + 04 + 06 = 22	
June	PT2 / Half Yearly / Pre-Boards	Acids, Bases and Salts (Complete)	02
June		Control and Coordination (Partial)	02
June	Total Periods	02 + 02 = 04	
July	Half Yearly / Pre-Boards	Control and Coordination (Complete)	03
July	Half Yearly / Pre-Boards	Human Eye and Colourful World	07
July	Half Yearly / Pre-Boards	Metals and Non-Metals	09
July	Half Yearly / Pre-Boards	How do organisms reproduce?	11
July	Total Periods	03 + 07 + 09 + 11 = 30	
Aug	Half Yearly / Pre-Boards	Electricity	12
Aug	Pre-Boards	Our Environment	07
Aug	Pre-Boards	Carbon and its Compounds	07
Aug	Total Periods	12 + 07 + 07 = 26	

Sep	Pre-Boards	Carbon and its Compounds	05
Sep	Revision Half Yearly	08	
Sep	Total Periods	05 + 08 = 13	
Oct	Pre-Boards	Heredity	10
Oct	Pre-Boards	Magnetic Effects of current	15
Oct	Total Periods	10 + 15 = 25	
Nov	NA	Practical	13
Dec + Jan + Feb	NA	Revision	19 + 26 + 14 = 59

Subject coordinator: HVA

HOD: ANA



Sir Padampat Singhania Education Centre

Kamla Nagar, Kanpur

Weekly planning overview

Session: 2026 - 2027

Subject : Science 086

Class : 10

No. of periods: 217 (145 + 72)

Period	Topic/s to be covered in classroom	Homework	Status (Yes/No) (Reason if No)
WEEK 1: 02.04.26 to 04.04.26		Period Count: 02	
PD1	Chemical Reactions and equations- Introduction	Read till taught	Yes
PD2	Chemical Equations-Writing and balancing	Practice balancing	Yes
WEEK 2: 06.04.26 to 11.04.26		Period Count: 06	
PD1	Balancing	Back exercises -related questions	Yes
PD2	Balancing	Read till taught	Yes
PD3	Types of Reactions – 1	Read till taught	Yes
PD4	Types of Reactions – 2	Read till taught	Yes
PD5	Types of Reactions – 3	Read till taught	Yes
PD6	Types of Reactions – 4	Intext q/a	Yes
WEEK 3: 13.04.26 to 18.04.26		Period Count: 07	
PD1	Types of Reactions – 5	Read till taught	Yes
PD2	Corrosion and Rancidity	Read till taught	Yes
PD3	Back Exercises	Q/A	Yes

PD4	Surprise Test	-	Yes
PD5	Life Processes - Introduction	Read till taught	Yes
PD6	Nutrition - Photosynthesis	Intext q/a	Yes
PD7	Heterotrophic - Amoeba	Diagram -nutrition in amoeba	Yes

WEEK 4: 20.04.26 to 25.04.26
Period Count: 07

PD1	Heterotrophic – Human Being	Read till taught	Yes
PD2	Heterotrophic – Human Being	Diagram - Human alimentary canal	Yes
PD3	Heterotrophic – Human Being	Read till taught	Yes
PD4	Respiration - Plants	Read till taught	Yes
PD5	Respiration – Human Beings	Read till taught	Yes
PD6	Respiration – Human Beings	Diagram -Human respiratory system	Yes
PD7	Related Back Questions	Q/A	Yes

WEEK 5: 27.04.26 to 02.05.26
Period Count: 07

PD1	Surprise Test	-	Yes
PD2	Light – Introduction	Read till taught	Yes
PD3	Reflection - Basics	Read till taught	Yes
PD4	Spherical Mirrors	Read till taught	Yes
PD5	Spherical Mirrors – Ray Diagram	Practice ray diagrams	Yes
PD6	Spherical Mirrors - Numerical	Practice numericals	Yes

PD7	Refraction – Refractive Index	Read till taught	Yes
WEEK 6: 04.05.26 to 09.05.26		Period Count: 05	
PD1	Revision	Revise	Yes
PD2	Revision	Revise	Yes
PD3	Model Paper	Practice ray diagrams	Yes
PD4	Revision	Practice numericals	Yes
PD5	Revision	Practice numericals	Yes
WEEK 7: 11.05.26 to 16.05.26		Period Count: 05	- PT1
PD1	Glass Slab + Spherical Lenses – Ray Diagram	Practice ray diagrams	Yes
PD2	Spherical Lenses - Numerical	Practice numericals	Yes
PD3	Back Exercises	Q/A	Yes
PD4	Transportation - Plants	Read till taught	Yes
PD5	Transportation – Human Beings	Diagram -Human heart	Yes
WEEK 8: 18.05.26 to 23.05.26		Period Count: 02	
PD1	Excretion – Human Beings	Diagram- Human excretory system + Nephron	
PD2	Excretion – Plants	Read till taught	
WEEK 9: 25.05.26 to 30.05.26		Period Count: 06	
PD1	Acids - Properties and Reactions	Read till taught	
PD2	Acids - Properties and Reactions	Read till taught	

PD3	Bases - Intro	Read till taught	
PD4	Bases - Properties and Reactions	Read till taught	
PD5	Salts - Introduction	Read till taught	
PD6	Salts - Applications	Read till taught	

Summer Break Weeks: 10 – 14

WEEK 15: 29.06.26 to 04.07.26

Period Count: 07

PD1	Control and Coordination - Intro + Nervous System	Diagram - Neuron	
PD2	Human Brain	Diagram - Human brain	
PD3	Coordination in Plants	Read till taught	
PD4	Coordination in Plants	Read till taught	
PD5	Endocrine System	Diagram - male and female endocrine system	
PD6	Endocrine System	Read till taught	
PD7	Back Exercises	Q/A	

WEEK 16: 06.07.26 to 11.07.26

Period Count: 07

PD1	Human Eye- Functions Scattering + its application	Read till taught	
PD2	Defects - Myopia , Hypermetropia	Diagrams - defects of vision and its corrections	
PD3	Prism, Rainbow Formation	Diagrams - Dispersion through prism, Rainbow through drop	
PD4	Scattering of light	Read till taught	
PD5	Atmospheric Refraction and its applications	Read till taught	

PD6	Advanced Sunrise delayed sunset, colour of sky	Read till taught	
PD7	Back Exercises	Q/A	

WEEK 17: 13.07.26 to 18.07.26

Period Count: 07

PD1	Metals - Properties and Reactions	Read till taught	
PD2	Metals - Properties and Reactions	Intext q/a	
PD3	Non-Metals - intro	Read till taught	
PD4	Non-Metals - Properties and Reactions	Read till taught	
PD5	Ionic Compounds	Read till taught	
PD6	Extraction	Read till taught	
PD7	Extraction	Intext q/a	

WEEK 18: 20.07.26 to 25.07.26

Period Count: 07

PD1	Back Exercises	Q/A	
PD2	Surprise Test	-	
PD3	Reproduction - Intro	Read till taught	
PD4	Asexual Reproduction	Read till taught	
PD5	Asexual Reproduction	Diagrams - binary fission and multiple fission	
PD6	Asexual Reproduction	Diagram - regeneration and budding	
PD7	Sexual Reproduction - Plants	Diagram- longitudinal section of flower	

WEEK 19: 27.07.26 to 01.08.26

Period Count: 07

PD1	Sexual Reproduction – Human Beings	Diagram - male reproductive system	
PD2	Sexual Reproduction – Human Beings	Diagram - female reproductive system	
PD3	Reproductive Health	Read till taught	
PD4	Reproductive Health	Read till taught	
PD5	Back Exercises	Q/A	
PD6	Surprise Test	-	
PD7	Electricity - Intro	Read till taught	

WEEK 20: 03.08.26 to 08.08.26

Period Count: 07

PD1	Potential Difference	Read till taught	
PD2	Current	Intext q/a	
PD3	Ohm's Law	Read till taught	
PD4	Numerical	Numericals practice	
PD5	Factors on which resistance depend	Read till taught	
PD6	Resistivity	Read till taught	
PD7	Resistance - Series	Numericals practice	

WEEK 21: 10.08.26 to 15.08.26

Period Count: 06

PD1	Resistance - parallel	Numericals practice	
PD2	Heating effects of current – Theory + Numerical	Read till taught	
PD3	Back Exercises	Q/A	

PD4	Surprise Test	-	
PD5	Our Environment - Intro	Read till taught	
PD6	Food chain and Food web	Read till taught	
WEEK 22: 17.08.26 to 22.08.26 Period Count: 05			
PD1	Biomagnification	Intext q/a	
PD2	10% Law	Read till taught	
PD3	Ozone Layer	Intext q/a	
PD4	Back Exercises	Q/A	
PD5	Surprise Test	-	
WEEK 23: 24.08.26 to 29.08.26 Period Count: 06			
PD1	Carbon - Intro	Read till taught	
PD2	Tetravalency + Catenation	Read till taught	
PD3	Allotropes	Intext q/a	
PD4	Saturated and Unsaturated Compounds	Read till taught	
PD5	Homologous Series + Nomenclature	Practice questions	
PD6	Chemical Properties of Carbon Compounds	Read till taught	
WEEK 24: 31.08.26 to 05.09.26 Period Count: 07			
PD1	Chemical Properties of Carbon Compounds	Read till taught	
PD2	Ethanol – with its properties	Intext q/a	

PD3	Ethanoic Acid – with its properties	Read till taught	
PD4	Soaps and Detergent	Read till taught	
PD5	Back Exercises	Q/A	
PD6	Surprise Test	-	
PD7	Revision	Revise	

WEEK 25: 07.09.26 to 12.09.26

Period Count: 07

PD1	Revision	Revise	
PD2	Revision	Revise	
PD3	Revision	Revise	
PD4	Revision	Revise	
PD5	Revision	Revise	
PD6	Revision	Revise	
PD7	Revision	Revise	

Half Yearly Exams Weeks: 26 and 27

WEEK 28: 28.09.26 to 2.10. 26

Period Count: 05

PD1	Heredity - Intro	Read till taught	
PD2	Heredity - Intro	Read till taught	
PD3	Mendel's Rules - Monohybrid Cross	Read till taught	
PD4	Mendel's Rules - Monohybrid Cross	Read till taught	

PD5	Dihybrid Cross	Read till taught	
WEEK 29: 05.10.26 to 10.10.26		Period Count: 06	
PD1	Dihybrid Cross	Read till taught	
PD2	Sex Determination	Diagram	
PD3	Heredity	Q/A	
PD4	Back Exercises	Q/A	
PD5	Surprise Test		
PD6	Magnetic effects of current - Intro	Read till taught	
WEEK 30: 12.10.26 to 17.10.26		Period Count: 07	
PD1	Magnetic Field and Field lines and Properties	Diagram - Magnetic field lines around a bar magnet	
PD2	Magnetic field and property of straight wire carrying current – Right Hand Thumb Rule	Diagram - Magnetic field lines around a straight current carrying conductor	
PD3	Magnetic field and property of straight wire carrying current – Right Hand Thumb Rule	Read till taught	
PD4	Magnetic field and property of loop carrying current	Diagram - Magnetic field lines of loop carrying current	
PD5	Magnetic field and property of loop carrying current	Read till taught	
PD6	Magnetic field and property of solenoid carrying current	Diagram - Magnetic field lines of solenoid carrying current	
PD7	Magnetic field and property of solenoid carrying current	Read till taught	
Dusshera Holidays – Week 31			
WEEK 32: 26.10.26 to 31.10.26		Period Count: 07	
PD1	Flemmings left hand rule	Read till taught	

PD2	Kicking wire experiment	Diagram	
PD3	Induced EMF	Intext q/a	
PD4	Domestic Electric Circuit	Diagram	
PD5	Safety Devices	Read till taught	
PD6	Back Exercises	Q/A	
PD7	Surprise Test		

WEEK 33: 02.11.26 to 07.11.26

Period Count: 07

PD1	Practical 1	Complete the Practical Work	
PD2	Practical 2	Complete the Practical Work	
PD3	Practical 3	Complete the Practical Work	
PD4	Practical 4	Complete the Practical Work	
PD5	Practical 5	Complete the Practical Work	
PD6	Viva of Practical 1 to 5		
PD7	Practical 6	Complete the Practical Work	

Diwali Holidays – Week 34

Pre Board I – Week 35 and 36

WEEK 37: 23.11.26 to 28.11.26

Period Count: 06

PD1	Practical 7	Complete the Practical Work	
PD2	Practical 8	Complete the Practical Work	

PD3	Practical 9	Complete the Practical Work	
PD4	Practical 10	Complete the Practical Work	
PD5	Viva of Practical 6 to 10		
PD6	Revision	Revise	
WEEK 38: 30.11.26 to 05.12.26 Period Count: 03			
PD1	Revision	Revise	
PD2	Revision	Revise	
PD3	Revision	Revise	
WEEK 39: 07.12.26 to 12.12.26 Period Count: 07			
PD1	Revision	Revise	
PD2	Revision	Revise	
PD3	Revision	Revise	
PD4	Revision	Revise	
PD5	Revision	Revise	
PD6	Revision	Revise	
PD7	Revision	Revise	
Pre Boards II – Week 40			
WEEK 41: 21.12.26 to 26.12.26 Period Count: 07			
PD1	Revision	Revise	

PD2	Revision	Revise	
PD3	Revision	Revise	
PD4	Revision	Revise	
PD5	Revision	Revise	
PD6	Revision	Revise	
PD7	Revision	Revise	
WEEK 42: 27.12.26 to 31.12.26 Period Count: 02			
PD1	Revision	Revise	
PD2	Revision	Revise	
Winter Break: Weeks 42 – 43			
WEEK 43: 07.01.27 to 09.01.27 Period Count: 02			
PD1	Revision	Revise	
PD2	Revision	Revise	
WEEK 44: 11.01.27 to 16.01.27 Period Count: 06			
PD1	Revision	Revise	
PD2	Revision	Revise	
PD3	Revision	Revise	
PD4	Revision	Revise	
PD5	Revision	Revise	

PD6	Revision	Revise	
WEEK 45: 18.01.27 to 23.01.27 Period Count: 06			
PD1	Revision	Revise	
PD2	Revision	Revise	
PD3	Revision	Revise	
PD4	Revision	Revise	
PD5	Revision	Revise	
PD6	Revision	Revise	
WEEK 46: 25.01.27 to 30.01.27 Period Count: 06			
PD1	Revision	Revise	
PD2	Revision	Revise	
PD3	Revision	Revise	
PD4	Revision	Revise	
PD5	Revision	Revise	
PD6	Revision	Revise	
WEEK 47: 01.02.27 to 06.02.27 Period Count: 07			
PD1	Revision	Revise	
PD2	Revision	Revise	
PD3	Revision	Revise	

PD4	Revision	Revise	
PD5	Revision	Revise	
PD6	Revision	Revise	
PD7	Revision	Revise	
WEEK 48: 08.02.27 to 13.02.27 Period Count: 07			
PD1	Revision	Revise	
PD2	Revision	Revise	
PD3	Revision	Revise	
PD4	Revision	Revise	
PD5	Revision	Revise	
PD6	Revision	Revise	
PD7	Revision	Revise	

Subject coordinator
HVA

Supervisor
NSL

Principal/V. Principal