



## *Sir Padampat Singhania Education Centre*

*Kamla Nagar, Kanpur*

**Lesson Plan**  
**Session 2026 - 2027**  
**Class: VIII**

**Subject** : **Science**  
**Book** : **Journey Through Science, S.Chand**

**Subject Coordinator**  
**Name: Shireen Shukla**

**Head of Department**  
**Name: Agnita Naha**



# Sir Padampat Singhania Education Centre

Kamla Nagar, Kanpur

## Yearly Syllabus/Planning overview

Session: 2026 - 2027

**Subject :** Science  
**Book :** Journey Through Science, S.Chand

**Class :** VIII  
**No. of active periods:** 149

Month	Assessed in	Lesson/s to be covered	Period Count
April May	PT1/HY	The Invisible Living World	14
May July	Half Yearly	Health: The Ultimate Treasure	11
July	Half Yearly	Electricity: Magnetic and Heating Effects	10
July	Half Yearly	Exploring Forces	13
August	Half Yearly	Particulate Nature of Matter	13
August	Half Yearly	Nature of Matter: Elements, Compounds and Mixtures	10
September		<b>Revision/Half yearly exam</b>	
October	PT2/AE	Light: Mirrors and Lenses	11
October November	PT2/AE	How Nature Works in Harmony	13
November	Annual Examination	Pressure , Winds, Storms and Cyclones	14
November December	Annual Examination	The Amazing World of Solutes	15
December	Annual Examination	Keeping Time with the Skies	13
January	Annual Examination	Our Home: Earth, a Unique Life Sustaining Planet	12

	on		
February		<b>Revision</b>	
March		<b>Annual Examination</b>	



# Sir Padampat Singhania Education Centre

Kamla Nagar, Kanpur

## Weekly planning overview

Session: 2026 - 2027

Subject : Science

Class : VIII

Period	Topic/s to be covered in classroom	Homework	Status (Yes/No) (Reason if No)
<b>WEEK 1: 2/04/26 to 4/04/26</b>		<b>Period Count: 1</b>	
PD1	Introduction of students and discussion on Global Conflict based on energy resources.		
PD2	<b>Holiday</b>		
PD3	<b>Holiday</b>		
<b>Note:</b>			
<b>WEEK 2: 6/04/26 to 11/04/26</b>		<b>Period Count: 6</b>	
PD1	Introduction – Exploring the Investigative World of science. Science and Curiosity.		
PD2	The journey of science – The World of matter and materials.	Read lesson	
PD3	Light , Vision and Universe – Thinking Like a Scientist	Read and revise	
PD4	Back exercises and Notebook work .	Learn new terms	
PD5	Introduction – The Invisible Living World		
PD6	Discovery of Cell – What is a cell ?		
<b>Note:</b>			

<b>WEEK 3: 13/04/26 to 18/04/26</b>			
<b>Period Count: 6</b>			
PD1	Cell Membrane , cytoplasm , nucleus		
PD 2	Cell wall , Plastids, vacuoles		
PD3	Mitochondria , difference between plant and animal cell , Variation in number of cells.	Read and revise	
PD4	Variation in shape of cells, levels of organisation and microorganisms.	Draw diagrams	
PD5	Bacteria and Fungi	Back exercises	
PD6	Question and Answers	Notebook completion	
<b>Note:</b>			

<b>WEEK 4: 20/04/26 to 25/04/26</b>		<b>Period Count: 7</b>	
PD1	Workbook		
PD2	Algae		
PD3	Algae ( continued)		
PD4	Protozoa		
PD5	Protozoa ( continued)		
PD6	Viruses		
<b>Note:</b>			

<b>WEEK : 5    27/4/26 to 2/5/26</b>		<b>Period Count: 4</b>	
PD1	Viruses ( continued )		
PD2	Revision		
PD3	How are we connected to microorganisms		
PD4	<b>Surprise test</b>		
PD5	<b>Holiday</b>		
PD6	<b>Holiday</b>		
<b>Note:</b>			

<b>WEEK :6    4/5/26 to 9/5/26</b>		<b>Period Count: 6</b>	
PD1	How are we connected to microbes ?		
PD2	Microorganisms and food	Read the lesson	
PD3	Microorganisms and soil fertility		
PD4	Question / Answers		
PD5	Introduction – Electricity: Magnetic and Heating Effects		
PD6	Magnetic effects and electromagnets		
<b>Note:</b> Periodic Test I from 4/04/26 to 11/04/26			

<b>Week 7    11/5/26 to 12/5/26</b>		<b>Period Count: 3</b>
<b>SUMMER VACATION 13/05/26 to 30/6/26 ( six weeks)</b>		

PD1	Electric switch activity 3		
PD2	Circuit diagrams	Draw diagrams	
	<b>Summer vacations</b>		

<b>WEEK 07: 11/5/26 to 16/5/26</b>		<b>Period Count: 02</b>	
PD1	Papers Shown PT 1		
PD2	Question and answers		
PD3	<b>Summer Break</b>		
PD4	<b>Summer Break</b>		
PD5	<b>Summer Break</b>		
PD6	<b>Summer Break</b>		

<b>WEEK 08: 18/5/26 to 23/5/26</b>		<b>Period Count: 00</b>	
PD1	<b>Summer Break</b>		
PD2	<b>Summer Break</b>		
PD3	<b>Summer Break</b>		
PD4	<b>Summer Break</b>		
PD5	<b>Summer Break</b>		
PD6	<b>Summer Break</b>		

<b>WEEK 09: 25/5/26 to 30/5/26</b>		<b>Period Count: 00</b>	
PD1	<b>Summer Break</b>		
PD2	<b>Summer Break</b>		
PD3	<b>Summer Break</b>		
PD4	<b>Summer Break</b>		

<b>PD5</b>	<b>Summer Break</b>	
<b>PD6</b>	<b>Summer Break</b>	

<b>WEEK 10: 1/6/26 to 6/6/26</b>		<b>Period Count: 00</b>
<b>PD1</b>	<b>Summer Break</b>	
<b>PD2</b>	<b>Summer Break</b>	
<b>PD3</b>	<b>Summer Break</b>	
<b>PD4</b>	<b>Summer Break</b>	
<b>PD5</b>	<b>Summer Break</b>	
<b>PD6</b>	<b>Summer Break</b>	
<b>WEEK 11: 8/6/26 to 13/6/26</b>		<b>Period Count: 00</b>
<b>PD1</b>	<b>Summer Break</b>	
<b>PD2</b>	<b>Summer Break</b>	
<b>PD3</b>	<b>Summer Break</b>	
<b>PD4</b>	<b>Summer Break</b>	
<b>PD5</b>	<b>Summer Break</b>	
<b>PD6</b>	<b>Summer Break</b>	

<b>WEEK 12: 15/6/26 to 20/6/26</b>		<b>Period Count: 00</b>
<b>PD1</b>	<b>Summer Break</b>	
<b>PD2</b>	<b>Summer Break</b>	
<b>PD3</b>	<b>Summer Break</b>	
<b>PD4</b>	<b>Summer Break</b>	
<b>PD5</b>	<b>Summer Break</b>	
<b>PD6</b>	<b>Summer Break</b>	

<b>WEEK 13: 22/6/26 to 27/6/26</b>		<b>Period Count: 00</b>	
<b>PD1</b>	<b>Summer Break</b>		
<b>PD2</b>	<b>Summer Break</b>		
<b>PD3</b>	<b>Summer Break</b>		
<b>PD4</b>	<b>Summer Break</b>		
<b>PD5</b>	<b>Summer Break</b>		
<b>PD6</b>	<b>Summer Break</b>		

<b>Week 14, 1/7/26 to 4/7/26</b>		<b>Period Count: 4</b>	
PD 1	Electromagnets – continued	Draw the mind map	
PD 2	Uses of electromagnets , heating effects Introduction	Read and revise	
PD 3	Factors , Applications of heating effects		
PD 4	Electric cell – voltaic cell		
<b>Note:</b>			

<b>WEEK :15 6/7/26 to 11/7/26</b>		<b>Period Count:</b>	
<b>6</b>			
PD1	Dry cell	Draw diagrams	
PD2	Rechargeable batteries	Back exercise	
PD3	Back exercise and Question answers		
PD4	Question answers	Notebook completion	
PD5	Workbook		

PD6	<b>Second Saturday</b>		
<b>Note:</b>			

<b>WEEK : 16 13 /7/26 to 18/7/26</b>		<b>Period Count: 7</b>	
PD1	Introduction – Particulate Nature of Matter <b>(Surprise test)</b>		
PD2	Characteristics of particle , solid state	Draw the mind map	
PD3	Liquid state , gaseous state		
PD4	How does the interparticle spacing differ , Activities	Read and revise	
PD5	How particles move in different states of matter , Activities		
PD6	Diffusion , effect of temperature	Back exercises	

<b>WEEK : 17 20 /7/26 to 25/7/26</b>		<b>Period Count: 7</b>	
PD1	Back exercises		
PD2	Question – Answers	Completion of notebook	
PD3	Workbook		
PD4	Workbook		
PD5	Introduction – Health : The ultimate Treasure		
PD6	Clean surroundings – What are the causes of diseases?	Draw the mind map	

**Note:**

**WEEK : 18 27/7/26 to 1/8/26**  
**7**

**Period Count:**

PD1	Types of diseases – communicable diseases		
PD2	Communicable diseases ( <b>Surprise test</b> )	Read and revise	
PD3	Non-communicable diseases		
PD4	How to prevent and control diseases?		
PD5	How do vaccines work ? – Importance of vaccines		
PD6	Discovery of the first vaccine – Treatment of diseases	Learn the diseases	

**Note:**

**WEEK :19 3 /8/26 to 8/8/26**

**Period Count: 6**

PD1	Case Studies		
PD2	How Bacteria became resistant to antibiotics?		
PD3	How to prevent antibiotic resistance? – Traditional medicine systems	Back exercises	
PD4	Back exercises		
PD5	Question- Answers ( <b>Surprise test</b> )	Completion in the notebook	
PD6	<b>Second Saturday</b>		

**Note:**

<b>WEEK : 20    10 /8/26 to 15 /8/26</b>		<b>Period Count:</b>	
6			
PD1	Introduction – Exploring forces		
PD2	Effects of forces – Types of forces	Draw the mind map	
PD3	Frictional force		
PD4	Non-contact forces- Electrostatic forces		
PD5	Electroscope	Read and revise	
PD6	<b>15 August</b>		
<b>Note:</b>			

<b>WEEK :21    17/8/26 to 22/8/26</b>		<b>Period Count: 7</b>	
PD1	Gravitational force – Weight and its measurement		
PD2	Spring Balance ,Floating and Sinking		
PD3	Back exercises		
PD4	Question – Answers		
PD5	Introduction - Nature of Matter <b>(Surprise test)</b>		
PD6	Elements, Compounds		
<b>Note:</b>			

<b>WEEK : 22    24/8/26 to 29/8/26</b>		<b>Period Count: 6</b>	

PD1	Compounds - Continued		
PD2	Mixtures		
PD3	<b>Bara Wafat</b>		
PD4	Mixtures - Continued		
PD5	Raksha bandhan		
PD6	Properties of mixtures		
<b>Note:</b>			

<b>WEEK : 23    31/8/26 to 5/9/26</b>		<b>Period Count: 7</b>	
PD1	Separation of Mixtures		
PD2	Back exercises		
PD3	Question and answers		
PD4	<b>Revision</b>		
PD5	<b>Model paper</b>		
PD6	<b>Model paper</b>		
<b>Note:</b>			

<b>WEEK :24    7/9/26 to 12/9/26</b>		<b>Period Count: 5</b>	
PD1	<b>Revision</b>		

PD2	<b>Revision</b>		
PD3	<b>Revision</b>		
PD4	<b>Half yearly examination</b>		
PD5	<b>Half yearly examination</b>		
PD6	<b>Half yearly examination</b>		
<b>Note:</b>			

<b>WEEK :26 14/9/26 to 19/9/26</b>		<b>Period Count: 7</b>	
PD1	<b>Half yearly examination</b>		
PD2	<b>Half yearly examination</b>		
PD3	<b>Half yearly examination</b>		
PD4	<b>Half yearly examination</b>		
PD5	<b>Half yearly examination</b>		
PD6	<b>Half yearly examination</b>		
<b>Note:</b>			

<b>WEEK : 27 21/9/26 to 26/9/26</b>		<b>Period Count: 7</b>	
PD1	<b>Half yearly examination</b>		
PD2	<b>Paper showing</b>		

PD3	<b>Paper showing</b>		
PD4	<b>Paper showing</b>		
PD5	Introduction – Light : Mirrors and Lenses		
PD6	Image formed by spherical mirrors	Draw the mind map	
<b>Note:</b>			

<b>WEEK :27 28/9/26 to 3/10/26</b>			<b>Period</b>
<b>Count: 6</b>			
PD1	Uses of spherical mirrors		
PD2	Laws of reflection	Draw the diagrams	
PD3	Laws of reflection – Continued		
PD4	Lenses		
PD5	<b>Gandhi Jayanti</b>		
PD6	Do lens converge or diverge	Back exercises	
<b>Note:</b>			

<b>WEEK : 28 5/10/26 to 10/10/26</b>			<b>Period Count: 7</b>
PD1	Back exercises		
PD2	Question – Answers	Completion of notebook work	
PD3	Workbook		

PD4	Introduction : How Nature Works In Harmony		
PD5	Habitat- Who All Live Together In Nature ?		
PD6	Every organism in a community matter.-Ecosystem		
<b>Note:</b>			

<b>WEEK :29 12/10/26 to 17/10/26</b>			<b>Period Count:</b>
7			
PD1	Types of Ecosystem ( <b>Surprise test</b> )	Read and revise the lesson	
PD2	Eating habits of different organisms – Who eats whom?		
PD3	Food Web – What happens to waste in nature ?		
PD4	How does one change lead to another?		
PD5	How do interactions maintain balance in ecosystems? – What are the benefits of an ecosystem?	Read and revise the lesson	
PD6	Threats to ecosystem – Human-made ecosystems – How do healthy ecosystems serve our farms?	Back exercises	
<b>Note:</b>			

<b>WEEK : 30 19/10/26 to 24/10/26</b>			<b>Period Count: 4</b>
PD1	<b>Holiday - Dusshera</b>		
PD2	<b>Holiday</b>		
PD3	Back exercises		
PD4	Question-Answers		

PD5	Workbook		
PD6	Workbook		
<b>Note:</b>			

<b>WEEK :31</b>		<b>26/10/26 to 31/10/26</b>	<b>Period Count:</b>
<b>7</b>			
PD1	Introduction- The amazing world of solutes, solvents and solutions		
PD2	Concentration of a solution – solubility	Draw the mind map	
PD3	Solubility of gases – Why do objects float or sink in water ? <b>(Surprise test)</b>		
PD4	What is density ?		
PD5	Determination of density	Read and revise the lesson	
PD6	Determination of density – Continued ( Measurement of volume)		
<b>Note:</b>			

<b>WEEK :32</b>		<b>2/11/26 to 7/11/26</b>	<b>Period Count: 7</b>
PD1	Layers of Earth and density		
PD2	Effect of pressure on density	Back exercises	
PD3	Back exercises		
PD4	Back exercises	Do practice of activity	
PD5	Question and answers		

PD6a	Workbook		
<b>Note:</b>			

<b>WEEK : 33 9 /11/26 to 14/11/26</b>		<b>Period Count: 3</b>	
PD1	<b>Holiday - Diwali</b>		
PD2	<b>Holiday</b>	Read lesson	
PD3	<b>Holiday</b>		
PD4	Pressure, Winds, Storms and Cyclones - Introduction		
PD5	Pressure - example 1 and 2 ( <b>Surprise test</b> )	Draw diagram	
PD6	Second Saturday		
<b>Note:</b>			

<b>WEEK : 34 16 /11/26 to 21/11/26</b>		<b>Period Count: 7</b>	
PD1	Pressure exerted by liquids		
PD2	Activities of book explanation	Read lesson	
PD3	Pressure exerted by gases		
PD4	Application of atmospheric pressure in everyday life		
PD5	Formation of wind		
PD6	High speed winds result in lowering of air pressure		

**Note:**

**WEEK :35      23/11/26 to 28/ 11//26**

**Period Count: 7**

PD1	Storms , Thunderstorms and Lightning		
PD2	Holiday ( Guru Nanak Jayanti)	Make poster on say no to drugs	
PD3	Lightning ( continued)		
PD4	Safety measures during Lighting and Cyclone <b>(Surprise test)</b>	Complete written work	
PD5	Destruction caused by Cyclone and How to protect ourselves		
PD6	Back exercises		

**Note:**

**WEEK :36      30/11/26 to 5/12/26**

**Period Count: 7**

PD1	Back exercises		
PD2	Question and answers		
PD3	Workbook	Read lesson	
PD4	Workbook		
PD5	Our Home : Earth - Introduction		
PD6	What do the planets of our solar system looks like?	Do activities	

**Note:**

<b>WEEK : 37    7/12/26 to 12/12/26</b>		<b>Period Count: 6</b>	
PD1	What makes the earth suitable for life to exist?		
PD2	Size of Earth ( continued ) and Magnetic field of the Earth		
PD3	what allows life to be sustained on Earth?	Learn definitions	
PD4	Soil , Rocks and minerals -Plants , animal and microorganisms		
PD5	What keeps life from disappearing?		
PD6	<b>Second Saturday</b>		
<b>Note:</b>			

<b>WEEK : 38    14 /12/26 to 19/12/26</b>		<b>Period Count:</b>	
<b>7</b>			
PD1	Vegetative propagation in plants		
PD2	Asexual reproduction and gamete formation	Complete written work	
PD3	Sexual reproduction in plants		
PD4	Sexual reproduction in plants ( continued)	Revise lesson	
PD5	Sexual reproduction in animals		
PD6	Sexual reproduction in animals ( continued)		
<b>Note:</b>			

<b>WEEK : 39    21 /12/26 to 26/12/26</b>		<b>Period Count: 6</b>	
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PD1	What are the threats to life on Earth? ( <b>Surprise test</b> )		
PD2	Back exercises		
PD3	Back exercises		
PD4	Question and answers		
PD5	<b>Christmas</b>		
PD6	Question and answers		
<b>Note: Periodic test 2 15.12.26 to 22.12 26</b>			

<b>WEEK ;40 28 /12/26 to 2/1/27</b>		<b>Period Count: 2</b>	
PD1	Workbook		
PD2	Workbook		
PD3	<b>Winter break</b>		
PD4	<b>Winter break</b>		
PD5	<b>Winter break</b>		
PD6	<b>Winter break</b>		
<b>Note:</b>			

<b>WEEK : 41 4 /1/27 to 9/1/27</b>		<b>Period Count: 2</b>	
PD1	<b>Winter break</b>		

PD2	<b>Winter break</b>		
PD3	<b>Winter break</b>		
PD4	<b>Winter break</b>		
PD5	Workbook completion		
PD6	Keeping Time with the Skies - Introduction		
<b>Note:</b>			

<b>WEEK : 42    11 /1/27 to 16/1/27</b>		<b>Period Count:</b>	
7			
PD1	Phases of moon		
PD2	Phases of moon ( continued)	Read lesson	
PD3	Locating moon and Why does moon's position shift each day ?		
PD4	How did calenders come into existence?		
PD5	<b>Holiday</b>	Draw diagram	
PD6	Calendars		
<b>Note:</b>			

<b>WEEK :43    18 /1/27 to 23/1/27</b>		<b>Period Count: 7</b>	
PD1	Calendars ( continued)		
PD2	Luni - Solar Calendar	Draw diagram	

PD3	Indian National Calendar		
PD4	Festivals ( <b>Surprise test</b> )		
PD5	Festivals ( Continued)	Learn definition	
PD6	Artificial Satellites		
<b>Note:</b>			

<b>WEEK :44</b>		<b>25 /1/27 to 30/1/27</b>	<b>Period Count: 5</b>
PD1	Artificial Satellites		
PD2	Back exercises	Draw eye	
PD3	Back exercises		
PD4	Question and answers		
PD5	Question and answers	Do practice of ray diagram	
PD6	Workbook		
<b>Note:</b>			

<b>WEEK : 45</b>		<b>1/2/27 to 6/2/27</b>	<b>Period Count: 7</b>
PD1	Workbook		
PD2	Workbook	Do back exercise	
PD3	Workbook		

PD4	<b>Revision</b>		
PD5	<b>Revision</b>	revise	
PD6	<b>Revision</b>		
<b>Note:</b>			

<b>WEEK : 46</b>		<b>8/2/27 to 13/2/27</b>	<b>Period Count: 7</b>
PD1	<b>Model paper</b>	Model paper	
PD2	<b>Revision</b>		
PD3	<b>Revision</b>		
PD4	<b>Revision</b>		
PD5	<b>Revision</b>		
PD6	<b>Revision</b>		
<b>Note:</b>			

<b>WEEK : 47</b>		<b>15/2/27 to 20/2/27</b>	<b>Period Count: 4</b>
PD1	<b>Revision</b>		
PD2	<b>Revision</b>		
PD3	<b>Revision</b>		
PD4	<b>Revision</b>		

PD5	<b>Annual Examination</b>		
PD6	<b>Annual Examination</b>		
<b>Note:</b>			

<b>WEEK : 48</b>		<i>22 /2/27 to 27/2/27</i>	<b>Period Count: 0</b>
PD1	<b>Annual Examination</b>		
PD2	<b>Annual Examination</b>		
PD3	<b>Annual Examination</b>		
PD4	<b>Annual Examination</b>		
PD5	<b>Annual Examination</b>		
PD6	<b>Annual Examination</b>		
<b>Note</b>			

<b>WEEK : 49</b>		<i>1/3/27 to 6/3/27</i>	<b>Period Count: 0</b>
PD1	<b>Annual Examination</b>		
PD2	<b>Annual Examination</b>		
PD3	<b>Annual Examination</b>		
PD4	<b>Annual Examination</b>		
PD5	<b>Annual Examination</b>		

PD6	<b>Annual Examination</b>		
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**Note:**

**WEEK :50 8 /3/27 to 13/3/27** **Period Count: 0**

PD1	<b>Annual Examination</b>		
PD2	<b>Closed for Students</b>		
PD3	<b>Closed for Students</b>		
PD4	<b>Eid Ul Fitr</b>		
PD5	<b>Closed for Students</b>		
PD6	<b>Closed for Students</b>		

**Note:**

**WEEK : 51 15 /3/26 to 20/3/26** **Period Count: 0**

PD1	<b>Closed for Students</b>		
PD2	<b>Closed for Students</b>		
PD3	<b>Closed for Students</b>		
PD4	<b>Closed for Students</b>		
PD5	<b>Closed for Students</b>		
PD6	<b>Closed for Students</b>		

**Note:**

**WEEK : 52    22/7/26 to 27/3/26**

**Period Count: 0**

PD1	<b>HOLI</b>		
PD2	<b>Closed for Students</b>		
PD3	<b>Closed for Students</b>		
PD4	<b>Closed for Students</b>		
PD5	<b>Closed for Students</b>		
PD6	<b>Closed for Students</b>		

**Note:**