

Annual & Weekly Syllabus Split-Up - 2026-27

Grade 8

Subject: Physics

| S.No | Month | No. of Working Days | No. of Days | Topic | Sub Topic | Teaching Aids/Resources | Classroom teaching Video Link | Activities | Art Integrated project | Pedagogy Process/Teaching Strategy | Chapterwise Notes link | Assessment | | |
|------|-------|---------------------|-------------|-------|------------------------------|---|---|---|---|---|---|---|---|--|
| 1 | APRIL | 25 | Week 1 | 4 | C-9 Force and Pressure | Force and its effects ,Magnitude & direction of force ,Net force | Pinnacle science book ,ppt and notes | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=assets | Observe the effects of force::Divide class into groups:Stretch a rubber band Kick a ball Press clay Open/close a door | Vocabulary: Force, gravity, magnetism, electrostatic, attraction, repulsion, friction Activity: Students write a short paragraph explaining "How forces affect daily life" | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=openBook | | | |
| | | | Week 2 | 6 | C-9 Force and Pressure | Types of forces-contact forces Non contact forces- Gravitation,magnetic ,electrostatic | Smart Board,Universal Science ,Ncert ,PPT | | | SST:Gravity in Society: ,Role of gravitational force in water supply, dams, tides,Maths:calculate Gravitational force by using $f = m \times g$ | Explore:Contact Force Push a book across the tableStretch a rubber band | | Diagram labelling,MCQ,Fill in the blanks,Worksheets, Class test | |
| | | | Week 3 | 5 | C-9 Force and Pressure | Pressure and its numericals | Pinnacle science book ,ppt and notes,Smart Board,Universal Science ,Ncert | | | | Relate pressure with force and area Use the formula Pressure = Force / Area Solve basic numericals Apply the concept to real-life situations | | | |
| | | | Week 4 | 6 | C-9 Force and Pressure | Applications of pressure,pressure exerted by liquid,Factors affecting pressure | Pinnacle science book ,ppt and notes,Smart Board,Universal Science ,Ncert | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=assets | | | Activity 1: Liquid Pressure Demo Take a plastic bottle with 3 holes at different heights Fill with water,Identify applications of pressure in real life Explain pressure exerted by liquids | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=openBook | | |
| | | | Week 5 | 4 | C-9 Force and Pressure | Pressure exerted by gases,Exercise Question - Answers | Pinnacle science book ,ppt and notes,Smart Board,Universal Science ,Ncert | | | | Identify factors affecting gas pressure Relate gas pressure to real-life applicationsBalloon Experiment Inflate a balloon Ask::Why does it expand? | | | |
| 2 | JUNE | 20 | Week 1 | 0 | | | | | | | | | | |
| | | | Week 2 | 6 | Revision, Force and Pressure | Exercise Question - Answers | Pinnacle science book ,ppt and notes | | | | | | | |
| | | | Week 3 | 6 | C-10 Friction | Frictional force , Cause of friction,Factors affecting friction ,force pressing the surface together | Pinnacle science book ,ppt and notes,Smart Board,Universal Science ,Ncert | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=assets | Observe the effects of friction on moving objects | | Surface Test Slide a block on: Smooth surface Rough surface,Explain the cause of friction Identify factors affecting friction | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=openBook | | |
| | | | Week 4 | 6 | C-10 Friction | Types of friction,Advantages and disadvantages of friction. | Pinnacle science book ,ppt and notes,Smart Board,Universal Science ,Ncert | | Methods of Increasing friction | | Identify and explain types of friction Compare static, sliding, and rolling friction | | Diagram labelling,MCQ,Fill in the blanks,Worksheets, Class test | |
| | | | Week 5 | 2 | C-10 Friction | Reducing friction,Increasing friction | Pinnacle science book ,ppt and notes,Smart Board,Universal Science ,Ncert | | Methods of Increasing friction | | | | | |
| 3 | JULY | 27 | Week 1 | 4 | C-10 Friction | Reducing friction,Increasing friction | Pinnacle science book ,ppt and notes,Smart Board,Universal Science ,Ncert | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=assets | | | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=open | | | |
| | | | Week 2 | 6 | C-10 Friction | Fluid friction ,factors affecting fluid friction,methods of reducing fluid friction,Exercise Question - Answers | Pinnacle science book ,ppt and notes,Smart Board,Universal Science ,Ncert | | study the factors reducing friction and relate it with real life situation. | | Identify factors affecting fluid friction Explain methods to reduce fluid friction Apply concepts to real-life situations | | | |
| | | | Week 3 | 6 | C-10 Friction REVISION | Fluid friction ,factors affecting fluid friction,methods of reducing fluid friction,Exercise Question - Answers | Pinnacle science book ,ppt and notes | | | | | | | |

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| | | | Week 4 | 6 | C-11 SOUND | Sound , production of sound,simple pendulum | Smart Board,Universal Science ,Ncert ,PPT | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=assets | to observe the oscillation made by pendulum and calculate the time period | | Describe a simple pendulum Relate vibrations to motion and sound.Ask students to: Close their eyes for 30 seconds List all sounds they hear | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=openBook | Diagram labelling,MCQ,Fill in the blanks,Worksheets, Class test |
| | | | Week 5 | 5 | C-11 SOUND | production of sound in Humans,propagation of sound,compression,speed of sound in different media | Smart Board,Universal Science ,Ncert ,PPT | | | | Compare speed of sound in solids, liquids, and gases Relate concepts to real-life applications.Ask a student to speak or hum,Observe vocal cords and mouth movement | | |
| 4 | AUGUST | 24 | Week 1 | 1 | C-11 SOUND | Reflection of sound,,properties related to sound. | Pinnacle science book ,ppt and notes,Smart Board,Universal Science ,Ncert | | | | | | |
| | | | Week 2 | 6 | C-11 SOUND | Pitch ,loudness. | Pinnacle science book ,ppt and notes,Smart Board,Universal Science ,Ncert | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=assets | | | | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=openBook | |
| | | | Week 3 | 5 | C-11 SOUND | structure Human ear,Audible inaudible sound,Ultrasound,infra sound | Smart Board ,Universal Science ,Ncert ,PPT | | | | Use a tuning fork Strike and ask:Which pitch can students hear?Identify audible range (20 Hz – 20,000 Hz) | | |
| | | | Week 4 | 6 | C-11 SOUND | Music & Noise,,Musical instruments ,Exercise questions | Smart Board ,Universal Science ,Ncert ,PPT | | | | | | |
| | | | Week 5 | 5+1 | REVISION | C-9 Force and Pressure, | Pinnacle science book ,ppt and notes,Smart Board,Universal Science ,Ncert | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=assets | | | | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=openBook | |
| 5 | SEPTEMBER | 23 | Week 1 | 5 | Term 1 | C-9 Force and Pressure,C-10 Friction, C -11 SOUND | Pinnacle science book ,ppt and notes,Smart Board,Universal Science ,Ncert | | | | | | |
| | | | Week 2 | 6 | | C-9 Force and Pressure,C-10 Friction, C -11 SOUND | | | | | | | |
| | | | Week 3 | 5 | C-13 LIGHT | Reflection of light,,Regular and irregular reflection,plane mirror image formation | Smart Board,Universal Science ,Ncert ,PPT ,video | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=assets | To draw the ray diagram of regular reflection and compare it with diffused reflection | | Define reflection of light and distinguish regular and irregular reflection,Explain image formation by plane mirrors,Understand working of kaleidoscope and periscope Describe spherical mirrors (concave and convex) and related terms Explain image formation by Mirror Magic | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=openBook | Diagram labelling,MCQ,Fill in the blanks,Worksheets, Class test |
| | | | Week 4 | 5 | C-13 LIGHT | Kaleidoscope and periscope working, spherical mirrors,terms related to spherical mirrors | Smart Board,Universal Science ,Ncert ,PPT ,video - https://www.youtube.com/watch?v=v5SuSB_93EM | | | | Ask a student to look in a plane mirror Ask: "Is the image real or virtual? Why does it appear reversed?" | | |
| | | | Week 5 | 3 | C-13 LIGHT | Terms related to spherical mirrors,image formation by concave mirror | Smart Board,Universal Science ,Ncert ,PPT ,video - https://www.youtube.com/watch?v=v5SuSB_93EM | | to draw the ray diagram of image formed by concave mirror | | | | |
| 6 | OCTOBER | 25 | Week 1 | 2 | C-13 LIGHT | image formation by convex mirror,uses of spherical mirrors | Pinnacle science book ,ppt and notes,Smart Board,Universal Science ,Ncert | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=assets | | | | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=openBook | |
| | | | Week 2 | 6 | C-13 LIGHT | Exercise Questions | Pinnacle science book ,ppt and notes,Smart Board,Universal Science ,Ncert | | | | | | |
| | | | Week 3 | 6 | C-14 Electric Current & its effect | Circuit diagrams,Resistance,Factors affecting resistance | Pinnacle science book ,ppt and notes,Smart Board,Universal Science ,Ncert | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=assets | | | Circuit Diagram Basics Provide battery, bulb, switch, wires Ask students to draw the corresponding circuit diagram | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=openBook | Diagram labelling,MCQ,Fill in the blanks,Worksheets, Class test |
| | | | Week 4 | 5 | C-14 Electric Current & its effect | Heating effect of current,factors affecting the heating effect of current | Pinnacle science book ,ppt and notes,Smart Board,Universal Science ,Ncert | | | | Explain the heating effect of electric current and its factors Identify applications of heating effect Describe working of incandescent | | |
| | | | Week 5 | 5 | C-14 Electric Current & its effect | Applications of the heating effect of current,Incandescent bulbs,Electric fuses | Pinnacle science book ,ppt and notes,Smart Board,Universal Science ,Ncert | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=assets | | | | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=openBook | |

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|----|----------|----|--------|-----|---|--|--|---|--|---|---|---|---|---|--|--|--|--|--|--|--|
| 7 | NOVEMBER | 12 | Week 1 | 0 | | | | | | | | | | | | | | | | | |
| | | | Week 2 | 0 | | | | | | | | | | | | | | | | | |
| | | | Week 3 | 0 | | | | | | | | | | | | | | | | | |
| | | | Week 4 | 6 | REVISION PT -II CH-LIGHT | Reflection of light,Regular and irregular reflection ,plane mirror image formation | Pinnacle science book ,ppt and notes,Smart Board,Universal Science ,Ncert | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=assets | | | | Explain Reflection of light,Regular and irregular reflection ,plane mirror image formation | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=openBook | Diagram labelling,MCQ,Fill in the blanks,Worksheets, Class test | | | | | | | |
| | | | Week 5 | 5+1 | C-14 Electric Current & its effect | Applications of the heating effect of current,Incandescent bulbs,Electric fuses,Magnetic effect electric | Pinnacle science book ,ppt and notes,Smart Board,Universal Science ,Ncert | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=assets | to make a circuit and explain oersted experiment | | | | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=openBook | | | | | | | | |
| 8 | DECEMBER | 21 | Week 1 | 5 | C-14 Electric Current & its effect | Electromagnet,factors affecting the strength of electromagnet | Pinnacle science book ,ppt and notes,Smart Board,Universal Science ,Ncert | | to make electromagnet with iron nail ,cells,wire & switch | | Construct a simple electromagnet Identify factors affecting the strength of an electromagnet | | | | | | | | | | |
| | | | Week 2 | 6 | C-14 Electric Current & its effect | Electric bell & Exercise questions | Pinnacle science book ,ppt and notes,Smart Board,Universal Science ,Ncert | | | | | | | | | | | | | | |
| | | | Week 3 | 6 | C-15 Stars and solar system | Satrs,Motion of stars in the sky,constellation | Pinnacle science book ,ppt and notes,Smart Board,Universal Science ,Ncert | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=assets | To observe the constellation in the night sky & draw the diagram of these. | | Define constellation and identify a few major constellations Relate stars and constellations to navigation and astronomy | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=openBook | Diagram labelling,MCQ,Fill in the blanks,Worksheets, Class test | | | | | | | | |
| | | | Week 4 | 4 | C-15 Stars and solar system | Galaxy,The solar system- planets | Pinnacle science book ,ppt and notes,Smart Board,Universal Science ,Ncert | | to study the time period of revolution of all planets and make a chart on it | | Look Up at the Sky” Ask students: “Why do stars seem to move at night?” Show a time-lapse video of stars moving across the sky,Star Observation Simulation. | | | | | | | | | | |
| | | | Week 5 | 3 | WINTER BREAK | | | | | | | | | | | | | | | | |
| 9 | JANUARY | 22 | Week 1 | 0 | | | | | | | | | | | | | | | | | |
| | | | Week 2 | 6 | POST M T | | | | | | | | | | | | | | | | |
| | | | Week 3 | 5 | POST MT ,Revision, C-14 Electric Current & its effect | Heating effect of current,factors affecting the heating effect of current | Pinnacle science book ,ppt and notes,Smart Board,Universal Science ,Ncert | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=assets | | | Explain Heating effect of current,factors affecting the heating effect of current | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=openBook | | | | | | | | | |
| | | | Week 4 | 6 | C-15 Stars and solar system | Saturn,uranus ,Neptune,Satellites, | Pinnacle science book ,ppt and notes,Smart Board,Universal Science ,Ncert | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=assets | | Planet Comparison Quiz Show images of Saturn, Uranus, and Neptune Ask students: “Which planet has rings? Which one rotates on its side?” Discuss differences in appearance and color. | | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=openBook | | | | | | | | | |
| | | | Week 5 | 5 | C-15 Stars and solar system | Phases of Moon,Artificial satellite,Exercise questions | Pinnacle science book ,ppt and notes,Smart Board,Universal Science ,Ncert | | | | Explain Phases of Moon,Artificial satellite,Exercise questions | | | | | | | | | | |
| 10 | FEBRUARY | 23 | Week 1 | 6 | C-11 SOUND Revision: | production of sound in Humans,propagation of sound,compression,speed of sound in different media | Smart Board,Universal Science ,Ncert ,PPT | | | | Define compression and rarefaction in sound waves,Compare speed of sound in solids, liquids, and gases,Use a rubber band stretched across a box,Pluck it → feel vibrations and hear sound | | | | | | | | | | |
| | | | Week 2 | 6 | C-13 LIGHT,REVISION | Reflection of light,Regular and irregular reflection,plane mirror image formation | Smart Board,Universal Science ,Ncert ,PPT ,video | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=assets | to study the plane mirror image formation | | Explain Reflection of light,Regular and irregular reflection,plane mirror image formation | https://teacher.pinnaclelearning.in/book?bookId=87&userRole=teacher&isbn=9789358937480&activeTab=openBook | Diagram labelling,MCQ,Fill in the blanks,Worksheets, Class test | | | | | | | | |
| | | | Week 3 | 5 | C-13 LIGHT | Kaleidoscope and periscope working, spherical mirrors,terms related to spherical mirrors | Smart Board,Universal Science ,Ncert ,PPT ,video - https://www.youtube.com/watch?v=v5SUSB_93E8 | | | Explain Kaleidoscope and periscope working, spherical mirrors,terms related to spherical mirrors | | | | | | | | | | | |

