

Bhartiya Vidya Mandir Sen Sec School Sec-39 Chd rd Ludhiana Class VIII - Science (2025-26)				
Month	Unit/Chapter/Topic	Learning Objectives	ources/Art-integrated pedagogy Tools Used/E-Resources (Authenticated L	Learning Outcomes/Skills Learnt by Students
APRIL	BRIDGE COURSE. Environmental Studies: Biodiversity, conservation of natural resources, water as a resource. Life Science: Nutrition, food, and the beginning of physiological changes (adolescence/puberty).	to enhance scientific inquiry and practical understanding. Develop scientific temper and curiosity	<a href="https://classnotes.org.in/ncert-solutions/class-8/science/">https://classnotes.org.in/ncert-solutions/class-8/science/</a> <a href="https://ncert.nic.in/dee/bridge-course-package.php?In=en">https://ncert.nic.in/dee/bridge-course-package.php?In=en</a>	scientific inquiry and practical understanding
MAY	BRIDGE COURSE. Physical Science: Basics of heat and ai	To build confidence in applying basic scientific pri	<a href="https://www.zigya.com/cbse/Class-8th/Science">https://www.zigya.com/cbse/Class-8th/Science</a> <a href="https://ncert.nic.in/dee/bridge-course-package.php?In=en">https://ncert.nic.in/dee/bridge-course-package.php?In=en</a>	Observation skills Experimental design, Hypothesis formation ,Critical thinking
JULY	Ch1- Exploring the world of science	Develop curiosity and critical thinking.	<a href="https://ncert.nic.in/textbook/pdf/hecu101.pdf">https://ncert.nic.in/textbook/pdf/hecu101.pdf</a>	Critical Thinking Evaluating evidence and arguments Scientific Literacy Understanding how science works
JULY	Ch-2: The Invisible Living World: Beyond Our Naked Eye	<ul style="list-style-type: none"> <li>Understand microorganisms and their classification</li> <li>Identify useful and harmful microbes</li> <li>Learn about diseases and prevention</li> </ul>	NCERT Textbook: <a href="https://ncert.nic.in">https://ncert.nic.in</a> DIKSHA Portal: <a href="https://diksha.gov.in">https://diksha.gov.in</a> Virtual Microscope Activity Art Integration: <a href="#">Draw and label microorganisms models</a>	<ul style="list-style-type: none"> <li>Students can classify microorganisms</li> <li>Explain their role in daily life</li> <li>Develop awareness about hygiene</li> </ul>
AUGUST	Ch-3: Health: The Ultimate Treasure	<ul style="list-style-type: none"> <li>Understand balanced diet and nutrients</li> <li>Learn about deficiency diseases</li> <li>Importance of sanitation and hygiene</li> </ul>	NCERT Resources: <a href="https://ncert.nic.in">https://ncert.nic.in</a> DIKSHA Videos: <a href="https://diksha.gov.in">https://diksha.gov.in</a> ICT: <a href="#">PPT on nutrition</a> Art Integration: <a href="#">Poster on healthy lifestyle</a>	<ul style="list-style-type: none"> <li>Students identify nutrients and diseases</li> <li>Apply health practices in daily life</li> </ul>
AUGUST	Ch-4: Electricity: Magnetic and Heating Effects	<ul style="list-style-type: none"> <li>Understand heating and magnetic effects of current</li> <li>Learn about electric circuits and safety</li> </ul>	NCERT E-book: <a href="https://ncert.nic.in/textbook.php">https://ncert.nic.in/textbook.php</a> PhET Simulation: <a href="https://phet.colorado.edu">https://phet.colorado.edu</a> DIKSHA: <a href="https://diksha.gov.in">https://diksha.gov.in</a> Art Integration: <a href="#">Circuit diagram drawing</a>	<ul style="list-style-type: none"> <li>Students construct simple circuits</li> <li>Explain magnetic effect of current</li> </ul>
SEPTEMBER	Ch-5: Exploring Forces	<ul style="list-style-type: none"> <li>Understand types of forces</li> <li>Effects of force on motion</li> </ul>	NCERT: <a href="https://ncert.nic.in">https://ncert.nic.in</a> PhET Forces Simulation: <a href="https://phet.colorado.edu">https://phet.colorado.edu</a> ICT: <a href="#">Force experiment videos</a> Art Integration: <a href="#">Chart on types of forces</a>	<ul style="list-style-type: none"> <li>Students differentiate contact &amp; non-contact forces</li> <li>Apply Newton's ideas in examples</li> </ul>
OCTOBER	Ch-6: Pressure, Winds, Storms and Cyclones	<ul style="list-style-type: none"> <li>Understand pressure and atmospheric effects</li> <li>Learn cyclone formation</li> </ul>	NCERT: <a href="https://ncert.nic.in">https://ncert.nic.in</a> IMD Website: <a href="https://mausam.imd.gov.in">https://mausam.imd.gov.in</a> DIKSHA: <a href="https://diksha.gov.in">https://diksha.gov.in</a> Art Integration: <a href="#">Model of cyclone</a>	<ul style="list-style-type: none"> <li>Students explain pressure concept</li> <li>Interpret weather reports</li> </ul>
OCTOBER	Ch-7: Particulate Nature of Matter	<ul style="list-style-type: none"> <li>Understand particle theory</li> <li>States of matter and diffusion</li> </ul>	NCERT: <a href="https://ncert.nic.in">https://ncert.nic.in</a> PhET States of Matter: <a href="https://phet.colorado.edu">https://phet.colorado.edu</a> Art Integration: <a href="#">Particle arrangement charts</a>	<ul style="list-style-type: none"> <li>Students explain properties of solids, liquids, gases</li> <li>Demonstrate diffusion examples</li> </ul>
NOVEMBER	Ch-8: Nature of Matter: Elements, Compounds and Mixtures	<ul style="list-style-type: none"> <li>Understand elements, compounds, mixtures</li> <li>Physical &amp; chemical changes</li> </ul>	NCERT: <a href="https://ncert.nic.in">https://ncert.nic.in</a> DIKSHA: <a href="https://diksha.gov.in">https://diksha.gov.in</a> ICT: <a href="#">Interactive quiz</a> Art Integration: <a href="#">Periodic table art activity</a>	<ul style="list-style-type: none"> <li>Students classify substances</li> <li>Differentiate mixtures and compounds</li> </ul>
NOVEMBER	Ch-9: The Amazing World of Solutes, Solvents and Solutions	<ul style="list-style-type: none"> <li>Understand solutions and solubility</li> <li>Concentration concepts</li> </ul>	NCERT: <a href="https://ncert.nic.in">https://ncert.nic.in</a> PhET Simulation Art Integration: <a href="#">Solubility chart preparation</a>	<ul style="list-style-type: none"> <li>Students prepare solutions</li> <li>Explain saturation and concentration</li> </ul>
DECEMBER	Ch-10: Light: Mirrors and Lenses	<ul style="list-style-type: none"> <li>Understand reflection and refraction</li> <li>Image formation by mirrors &amp; lenses</li> </ul>	NCERT: <a href="https://ncert.nic.in">https://ncert.nic.in</a> Ray Diagram Simulation DIKSHA: <a href="https://diksha.gov.in">https://diksha.gov.in</a> Art Integration: <a href="#">Ray diagram drawing</a>	<ul style="list-style-type: none"> <li>Students draw ray diagrams</li> <li>Explain image characteristics</li> </ul>
DECEMBER	Ch-11: Keeping Time with the Skies	<ul style="list-style-type: none"> <li>Understand phases of moon</li> <li>Solar and lunar eclipses</li> </ul>	NCERT: <a href="https://ncert.nic.in">https://ncert.nic.in</a> ISRO Website: <a href="https://www.isro.gov.in">https://www.isro.gov.in</a> Art Integration: <a href="#">Moon phase calendar activity</a>	<ul style="list-style-type: none"> <li>Students explain celestial events</li> <li>Develop astronomical curiosity</li> </ul>
JANUARY	Ch-12: How Nature Works in Harmony	<ul style="list-style-type: none"> <li>Understand ecosystem balance</li> <li>Interdependence in nature</li> </ul>	NCERT: <a href="https://ncert.nic.in">https://ncert.nic.in</a> DIKSHA: <a href="https://diksha.gov.in">https://diksha.gov.in</a> Art Integration: <a href="#">Food web chart</a>	<ul style="list-style-type: none"> <li>Students explain ecological balance</li> <li>Identify environmental responsibilities</li> </ul>
JANUARY	Ch-13: Our Home: Earth, a Unique Life Sustaining Planet	<ul style="list-style-type: none"> <li>Understand Earth's resources</li> <li>Environmental conservation</li> </ul>	NCERT: <a href="https://ncert.nic.in">https://ncert.nic.in</a> NASA Climate Kids: <a href="https://climatekids.nasa.gov">https://climatekids.nasa.gov</a> Art Integration: <a href="#">Poster on save Earth campaign</a>	<ul style="list-style-type: none"> <li>Students describe Earth systems</li> <li>Promote sustainable practices</li> </ul>