

# BHARTIYA VIDYA MANDIR SENIOR SECONDARY SCHOOL

## SECTOR-39, CHANDIGARH ROAD, LUDHIANA

### SYLLABUS OF CLASS VIII

BOOK: NCERT		SUBJECT – SCIENCE		SESSION - 2024-2025	
Month	Unit/Chapter/Topic	Learning Objectives	Resources/Art-integrated pedagogy tools used		Learning Outcomes/ Skills learnt by students
			E-Resources		
APRIL	Chapter 1. Crop Production & management	To understand How Technology has impacted farming.	Innovative pedagogy.chart /PPT.[Integrated Activity] and group discussion	<a href="https://www.youtube.com/live/pN4FLBrjIJE?si=ijgwAoxjVijkBCcg">https://www.youtube.com/live/pN4FLBrjIJE?si=ijgwAoxjVijkBCcg</a>	Knowledge about various agricultural practices. Student will learn thinking skill, social skill, and observation skill.
	Chapter 2. Micro-organisms: Friend and foe	To differentiate weather micro organisms are friend or foe	Observation method used: study permanent slides of different micro-organisms	<a href="https://www.youtube.com/live/fIE3LUGyLP4?si=LzpdMU1Uls4aGr3t">https://www.youtube.com/live/fIE3LUGyLP4?si=LzpdMU1Uls4aGr3t</a>	Awareness about useful and harmful microorganisms. Student will inherit critical thinking, Analytical and research skill, induce creative thinking
MAY	Chapter 3. Coal and Petroleum	Understand the importance of conservation of fossil fuel	Brain storming questionnaire and Group discussion	<a href="https://www.youtube.com/live/0E2x90NOT4w?si=HOKz2xLYvbSh5ULM">https://www.youtube.com/live/0E2x90NOT4w?si=HOKz2xLYvbSh5ULM</a>	Develop awareness about the judicious use of limited sources of energy among the students. They will also develop critical thinking, reasoning skill, analytical skill and environmental awareness.
JUNE	<b>SUMMER VACATION</b>				
JULY	Chapter 4. Combustion and flame	To differentiate the substances on the basis of combustible or non-combustible	Integrated activity- study various zones of candle flame	<a href="https://www.youtube.com/live/D6ZAsksAXcc?si=LdrWn_MKpIsEY_DY">https://www.youtube.com/live/D6ZAsksAXcc?si=LdrWn_MKpIsEY_DY</a>	Awareness about required conditions for combustion and working of fire extinguisher. The learner will develop thinking skill and environmental awareness.
	Chapter 5. Conservation of Plants and Animals	understand the need for conservation of forest and wildlife	Group discussion on Deforestation - causes and consequences	<a href="https://www.youtube.com/live/PomFqEfiSAI?si=NpVywF8jklFRDlnI">https://www.youtube.com/live/PomFqEfiSAI?si=NpVywF8jklFRDlnI</a>	Find out ways to overcome the problem of deforestation and imbalance in the ecosystem. The learner will develop observation skill, critical thinking and environmental awareness
AUGUST	Chapter 6. Reproduction in Animals	To understand the need and types of reproduction	Brain storming questionnaire and Group discussion	<a href="https://www.youtube.com/live/2TPa1gjcTQ?si=Byoue43z5IgcY604">https://www.youtube.com/live/2TPa1gjcTQ?si=Byoue43z5IgcY604</a>	Learn to differentiate between sexual and asexual reproduction. Student will develop reasoning skill, observation skill, critical thinking and creative thinking.
	Chapter 7. Reaching the age of Adolescence	Understand the changes occurring during adolescence	Active learning- direct questions to the students	<a href="https://www.youtube.com/live/e_YtKITq-zA?si=MmDBoSHJQfo2J_9">https://www.youtube.com/live/e_YtKITq-zA?si=MmDBoSHJQfo2J_9</a>	Awareness about adolescence/puberty, Reproduction , health and hormones
SEPTEMBER	<b>TERM I EXAMINATION</b>				
OCTOBER	Chapter 8. Force and Pressure	To make aware about the practical applications of Force and Pressure in day to day life	Experimental learning	<a href="https://youtu.be/FLtn1vGyw1M?si=NKNbMie62K5Rsb1n">https://youtu.be/FLtn1vGyw1M?si=NKNbMie62K5Rsb1n</a>	Understanding of various terms related to force and pressure. The learner will develop observation skill and logical thinking.
NOVEMBER	Chapter 9. Friction	Understand the concept of friction and its types	Activity Method	<a href="https://www.youtube.com/live/ErgCwIsJUBo?si=YPur7Qagq5-PctS">https://www.youtube.com/live/ErgCwIsJUBo?si=YPur7Qagq5-PctS</a>	Student will come to know that how to reduce or increase the friction. He will learn observation skill and Reasoning skill.
	Chapter 10. Sound	To describe the characteristics of sound, audible range and the concept of noise.	Active learning	<a href="https://www.youtube.com/live/8OFD6XVZjPs?si=J3vEOEZ71I21fPNf">https://www.youtube.com/live/8OFD6XVZjPs?si=J3vEOEZ71I21fPNf</a>	Knowledge about the concept of sound , noise , noise pollution and how to reduce it. The learner will develop critical thinking, creative thinking and observation skill.

<b>DECEMBER</b>	Chapter 11. Chemical Effects of Electric Current	To understand liquids on the basis of poor and good conductor of electricity and chemical effects of current	Experimental learning	<a href="https://www.youtube.com/live/IF65K3fWDys?si=fwaMncxeiPaZlaG">https://www.youtube.com/live/IF65K3fWDys?si=fwaMncxeiPaZlaG</a>	Student will be able to apply knowledge of electroplating in daily life. Student will develop analytical skill and observation skill.
	Chapter 12. Some natural phenomenon	To understand the effect of earthquake and lightening	Discussion method and Project method	<a href="https://www.youtube.com/live/KGvd3ORCc60?si=OgHkrwVnX7Z0Jw2">https://www.youtube.com/live/KGvd3ORCc60?si=OgHkrwVnX7Z0Jw2</a>	Understanding of cause of lightening and earthquake and steps to minimise the destruction. Student will develop environmental awareness.
<b>JANUARY</b>	Chapter 13. Light	Understand laws of reflection, human eye and braille system.	Active learning-Brain storming questionare and experimental learning	<a href="https://www.youtube.com/live/8FnVfQpnWUO?si=b7EneYaoHZ-vtd69">https://www.youtube.com/live/8FnVfQpnWUO?si=b7EneYaoHZ-vtd69</a>	Knowledge about the reflection of light and various concepts related to it. Learner will develop problem solving skill, critical thinking and creative thinking
<b>FEBRUARY</b>	<b>REVISION</b>				
<b>MARCH</b>	<b>TERM II EXAMINATION</b>				