

**Class : X : Subject : Science**

**Academic Calendar - 1<sup>st</sup> SEPTEMBER 2020 TO MARCH 31<sup>st</sup>2021 -120 periods**

Sl. No.	Chapter Wise Learning Concepts	Available Periods From June	Reduced Periods	Available Periods	Learning Points To Be Skipped and Justification
1	1. Chemical Reactions and Equations	10	10	0	Entire chapter is skipped - as it is already learnt in the chapter 8 (chemical reactions) and chapter 9 (Electrolysis) of class VII, and Chapter 11 (chemical reactions and their types) of class VIII
2	2. Acids, Bases and Salts 2.1 Chemical properties of acids and Bases. 2.2 Why do all acids and all bases have in common? 2.3 How strong are acid or base solutions? 2.4 More about salts	12	5	7	Activities: 2.1, 2.3, 2.4, 2.5, 2.6, sub topics: 2.1.1, 2.1.2, 2.1.3, 2.1.4. 2.2.1, 2.3.1, 2.4.3- These were studied in Chapter – 8 (Acids, Bases and Salts) of class VII in the state syllabus and concept on bleaching powder was studied in VIII state in chapter– 12
3	3. Metals and Non-metals : 3.1 Physical properties of metals 3.2 Chemical properties of metals 3.3 Reactions of metal and non-metals 3.4 Occurrence of metals 3.5 Corrosion	10	3	7	Concepts: 3.1, 3.1.1, 3.3.1 3.2.2, 3.2.4, 3.3, 3.3.1 Concepts: 3.1, 3.2, 3.3, 3.4, 3.4, 3.5, 3.6, 3.8, 3.11, 3.12, 3.13. These concepts were Studied in unit 4 (metals and non- metals) of class VI and chapter VII of class VII.
4	4. Carbon And Compounds 4.1 Covalent Bond and Allotropes of carbon 4.2 Versatile nature of carbon 4.3 Chemical properties of carbon compounds 4.4 Ethanol and Ethanoic acid 4.5 Soaps and detergents	15	5	10	4.1 It was already studied in unit 7 (chemical bonding) class VII. 4.4.2 (ii) and (iii) - studied in chapter -8 (Acids, Bases and salts) of Class VII state syllabus.

5	<b>5. Periodic classification of elements :</b> <b>5.1 Making order out of Chaos –</b> <b>5.2 Making out of chaos Mendeleev’s periodic table</b> <b>5.3 Making out of chaos Modern periodic table</b>	8	2	6	5.1, 5.2, 5.3, 5.4, 5.5 Activities given as home assignment Concepts: 5.1.1, 5.1.2, As these are not mentioned in the NCERT syllabus.
6	<b>6. Life Processes</b> <b>6.1 What are life processes?</b> <b>6.2 Nutrition</b> <b>6.3 Respiration</b> <b>6.4 Transportation</b> <b>6.5 Excretion</b>	14	9	5	Concepts 6.1, 6.2 and 6.3. - were studied in chapter – 19 (Life processes) of class VIII state syllabus.
7	<b>7. Control and coordination</b>	11	0	11	-
8	<b>8. How do organisms Reproduce?</b> <b>8.1 Do organisms create exact copies of themselves?</b> <b>8.2 modes of reproduction used by single organisms</b> <b>8.3 Sexual reproduction</b>	11	3	8	Concept : 8.1 and 8.2, these were studied in chapter - Reproduction -1 part-2 of class VII state syllabus.
9	<b>9. Heredity and evolution</b>	13	0	13	-
10	<b>10.Light-Reflection and Refraction</b> <b>10.1 Reflection of Light</b> <b>10.2 Spherical Mirrors</b> <b>10.3 Refraction of Light</b>	16	3	13	Activities 10.1 to 10.5 Chapter to be completed by getting done activities 10.6 to 10.9 as home assignment.
11	<b>11.The human eye and the Colourful World</b> <b>11.1 The human eye</b> <b>11.2 Defects of vision and their correction</b> <b>11.3 Refraction of light through a prism</b> <b>11.4 Dispersion of White Light through a glass prism</b> <b>11.5 Atmospheric Refraction</b> <b>11.6 Scattering of Light</b>	14	4	10	Dispersion of White Light by a glass prism (students have learnt this in class 8.) to be skipped.

12	<b>12. Electricity</b> <b>12.1 Electric current and Circuit</b> <b>12.2 Electric Potential and Potential Difference</b> <b>12.3 Circuit diagram</b> <b>12.4 Ohm's Law</b> <b>12.5 Factors on which the resistance of conductor depends</b> <b>12.6 Resistance of a system of Resistors</b> <b>12.7 Heating effect of electric current</b> <b>12.8 Electric Power</b>	16	4	12	Activities 12.2 and 12.4, and some numerical problems on same concepts can be skipped.
13	<b>13.Magnetic Effects of Electric Current</b> <b>13.1 Magnetic field and Field lines</b> <b>13.2 Magnetic field due to a current carrying conductor</b> <b>13.3 Force of a current</b> <b>13.4 Electric Motor</b> <b>13.5 Electromagnetic Induction</b> <b>13.6 Electric Generator</b> <b>13.7 Domestic electric circuits</b>	10	3	7	Activities 13.1 to 13.5 are given as home assignment. Concept 13.7. is skipped.
14	<b>14.Sources of Energy</b> <b>14.1 What is a good source of energy?</b> <b>14.2 Conventional sources of energy</b> <b>14.3 Alternative and nonconventional sources of energy</b> <b>14.4 Environmental consequences</b> <b>14.5 How long will an energy source last us?</b>	7	3	4	Activities 14.1 to 14.5 are given as home assignment. Concepts 14.4 and 14.5 ,as students have already learnt in class VIII chapter-1 (Natural resources)
15	<b>15. Our Environment</b>	6	6	0	Entire chapter is skipped - as it is already learnt in chapter- 2 ( Our Environment ) of class 8 in state curriculum
16	<b>16. Sustainable management of Natural resources</b>	7	0	7	-
	<b>Total</b>	<b>180</b>	<b>60</b>	<b>120</b>	