

EE as infused in NCERT Text Books as per NCF- 2005

A Comparative Study



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EE as infused in NCERT Text Books as per NCF 2005 vis a vis EE syllabus NCFSE 2000

EE syllabi as per NCFSE 2000	EE components infused in the syllabus of different subjects as per NCF 2005
	<p>(Class, Subject, chapter No, chapter Name Page No, Subtopics, Boxes, Activity, elaborations if any (in brackets) in order)</p> <ul style="list-style-type: none"> • <i>The code like 6.1 includes all the sub codes</i> • <i>In the order: science, biology, chemistry, physics, geography, economics, business studies, accountancy, psychology, sociology, political science, history, mathematics and languages</i>
Class VI	
<p>6.1 Knowing the Environment</p>	<p>(VI) Science Ch 7, <i>Getting to Know the Plants</i> Pg: 52-65 Ch 9, <i>The Living Organisms and their Surroundings</i> Pg: 79-94 Habitat of Plants and Animals Ch 14, <i>Water</i> Pg: 136-146 Ch 15, <i>Air Around Us</i> Pg: 147-154</p> <p>(VII) Science Ch 7, <i>Weather, Climate and Adaptation of Animals to Climate</i> Pg: 69-79 Calculation of weather and Climate Ch 8, <i>Winds, Storms and Cyclones</i> Pg: 80-95 Ch 9, <i>Soil</i> Pg: 96-107 Ch 17, <i>Forest our Lifeline</i> Pg: 206-219</p> <p>(VII) Geography, Ch 1, <i>Environment</i>, Pg: 1-5 Ch 3, <i>Our Changing Earth</i> Pg: 12-17 Ch 4, <i>Air</i> Pg: 20-27 Ch 5, <i>Water</i> Pg: 30-37 Ch 6, <i>Natural Vegetation and Wild Life</i> Pg: 44 Box- fig 6.16 Pg: 61-62 Lake Ch 9, <i>Life in the Temperate Grassland</i>, Pg: 65-69 Ch 10, <i>Life in the Desert</i>, Pg: 71-76</p>

(VI) English (Text Book)

Ch 2, *How the Dog found himself A new master*

Pg: 24-25 The Dog Family

Ch 5, *A Different kind of School*

Pg: 56-61 School for Disabled & importance of their accommodations

(VII) English (Textbook)

Ch 3, *The Desert*

Pg: 15-19 Life in a Desert

(IX) English (Textbook – Beehive)

Ch 5, *Snake and the Mirror*

Pg: 50-60 Animals are not Harmful

(X) English (Textbook)

Ch 3, *Two Stories About Flying*

Pg: 32-36 His first fight- about bird

Pg: 43-44 How to tell wild Animals- (poem about animals)

Ch 6, *The Hundred Dresses-II*

Pg 83 Animals (Poem about animals)

(XII) English (Text Book)

Title Flamingo: Back Cover has a small Write up on Flamingos.

(XII) English (Supplementary)

Ch 2, *The Tiger King*

Pg: 9-17 A Story about how hunting led to the extinction of tiger population in the forest and how the tiger takes its revenge

Ch 3, *Journey to the End of the Earth*

Pg: 18-22 About Antarctica - how its simple ecosystem & lack of biodiversity makes it a perfect place to study environmental changes.

(IX) Hindi (Sparsh –1)

Ch 1, *Dhool* Pg: 7-12

Ch 6, *Keetched ka kavya* Pg: 56-61

(VI) Urdu (Textbook)

Pahaad Aur Gilhari Pg: 17-18

Aasmani Dost Pg: 29-34

	<p>(VI) Urdu (Supplementary) <i>Ghore Aur Hiran Ki Kahani</i> Pg: 49-51 <i>O Subah ke Sithare</i> Pg: 103-104 <i>Kachua Aur Thalab</i> Pg: 31-36 <i>Theen Khachue</i> Pg: 41-45</p> <p>(VII) Urdu (Textbook) <i>Mera Vattan</i> Pg: 1-3 <i>Salimali</i> Pg: 57-59</p> <p>(VII) Urdu (Supplementary) <i>Garmi</i> Pg: 23-26 <i>Barsaat</i> Pg: 63-65 <i>Bahaar</i> Pg: 41-42 <i>Pyara Vattan</i> Pg: 19-22 <i>Thithli</i> Pg: 23-25 <i>Jameen ke Taare</i> Pg: 29-30</p> <p>(IX) Urdu (Textbook) <i>Dehath Ki Jindagi</i> Pg: 50-55</p> <p>(IX) Urdu (Supplementary) <i>Badli Ka Chaand</i> Pg: 43</p>
<p>6.1.1 The environment - social and natural.</p>	<p>(IX) Geography Ch 2, <i>Physical Features of India</i>, Pg: 7-15 Pg: 15, Box – Corals Ch 4, <i>Climate</i> Pg: 38 Box – Newspaper Clip Ch 5, <i>Natural Vegetation and Wildlife</i>, Pg: 42-51</p> <p>(XI) Sociology Ch 4, <i>Culture and Socialisation</i>, Pg: 66 Box- effect of natural environment on food habits, patterns of Dwelling, Clothing and development of religion Ch 2 <i>Social Change and Social Order in Rural and Urban Society</i> Pg: 26 Effect of human activity on environment and effect of environmental change on societies Ch 3 <i>Environment and Society</i> Pg: 50-64</p> <p>(VII) English (Textbook) Ch 1, <i>Three Questions</i> Pg: 17 Squirrel Ch 3, <i>Gopal & The Hilsa Fish</i> Pg: 44-45 Picture Reading – Stag</p>

(VII) English (Supplementary)

Ch 2, *Bringing up Kari*

Pg: 7-13 Domestication of Elephant

Ch 6, *I want Something in a Cage*

Pg: 36-42 Not to cage Animals

Ch 7, *Chandini*

Pg: 43-51 Stop Domestication of goats

Ch 9, *Tiger in the House*

Pg: 58-63 Domestication of Tiger in a zoo

(VI) Hindi (Vasant-1)

Ch 3, *Nadaan Dost* Pg: 13-22

(VII) Hindi (Vasant-2)

Ch 3, *Himalya ki Betiyan* Pg: 12-17

Ch 9, *Chidiya ki Bacchi* Pg: 67-74

(IX) Hindi (Chhitij-1)

Ch 2, *Lahasa ki Aor* Pg: 25-33

Ch 4, *Sawle Sapno ki Yaad* Pg: 43-49

Ch 8, *Ek Kutta aur Ek Mena* Pg: 79-86

Ch 13, *Gram Shri* Pg: 13-16

Ch 14, *Chandra Grahana se Lotathi Ber* Pg: 119-123

Ch 15, *Megh Aaye* Pg: 127-130

(X) Hindi (Chhitij –2)

Ch 3, *Darr Drum Palana* Pg: 21

Ch 5, *Kavita* Pg: 22

Ch 5, *Utsah At Nahi Rahi Hai* Pg: 33-36

(XI) Hindi (Antra-1)

Kavith Pg: 136-138

Sandhya ke baad Pg: 141-146

Baadal ko Girte Deka Pg: 161-166

(XII) Hindi (Aaroh-2)

Ch 17, *Hazari Parsaad Divedi*

Pg: 143-150 Shirish ke Phool

(XII) Hindi (Antra-2)

(Kavya Khand)

Ch 1, *Karneliya ka Geet* Pg: 5-6

Ch 6, *Basant Aaya, Toodo* Pg: 35-40

Ch 8, *Bharhamasa* Pg: 48-54

(Gadh Khand)

Ch 7, *Jaha Koi Vapsi Nahi* Pg: 133-140

	<p>Ch 10, <i>Kuttaj</i> Pg: 160-169</p> <p>(IX) Sanskrit <i>Paryawaran</i> Pg: 78-84</p> <p>(XII) Sanskrit <i>Bhoo-Vibhag</i> Pg: 74-77</p>
<p>6.1.2 Human dependence on the environment</p>	<p>(VI) Science Ch 3, <i>Fibre to Fabric</i> Pg: 18-25 Ch 9, <i>The Living Organism and their Surrounding</i> Pg: 79-94</p> <p>(VII) Science Ch 3, <i>From Fibre to Fabric</i> Pg: 24-34 Pg: 28 Activity - Is it just on human being's part to shear the sheep Ch 7, <i>Weather Climate and Adaptation of Animals to Climate</i> Pg: 69-79</p> <p>(X) Science Ch 16, <i>Management of Natural Resources</i> Pg: 270-271 People Dependent on Forest Produce Pg: 270 Activity - 16.5</p> <p>(XII) Biology Ch 9, <i>Strategies for Enhancement in Food Production</i> Pg: 172-173 Plant Breeding Pg: 175-176 Plant Breeding for Improved Food Quality Pg: 176-177 Single Cell Protein</p> <p>(VII) Geography Ch 1, <i>Environment</i> Pg: 3-5 Ch 5, <i>Water</i> Pg: 30-37 Pg. 33 Box – Related to water Problem Pg. 34 Tsunami – the earth pandemonium Ch 6, <i>Natural Vegetation and Wild Life</i>, Pg: 39-44 Pg 44 - fig 6.16 Ch 8, <i>Human Environment Interactions The Tropical and the Subtropical Region</i>, Pg: 55-62 Pg 58 Box – 8.6 Gradual Destruction of forest Pg 61-62 Box-Lake</p>

Ch 9, *Life in the Temperate Grassland*, Pg: 65-69
Ch 10, *Life in the Desert*, Pg: 71-76

(X) Geography

Ch 1, *Resource and Development*, Pg: 1-12
Ch 2, *Forest and Wildlife Resources*, Pg: 14-21
Pg: 20 Gharial on the Brink

(XI) Psychology

Ch 4, *Human Development*
Pg: 68-69

(XII) Sociology

Ch 2, *Social change and social order in rural and urban society*
Pg 26 Effect of human activity on environment
natural distribution effect of environmental
change on societies
Ch 3, *Environment and society*, Pg: 50-64

(VI) Political Science

Ch 1, *Understanding Diversity*, Pg: 8-9,10
Pg: 9,14 Human Adaptation on the Environment
(Ladakh & Kerala - Box)

(XII) Political Science

Ch 8, *Environment and Natural Resources*
Pg: 119 Human Dependence on the Environment
– Collecting News Clipping (Lets Do It)

(VI) English (Text Book)

Ch 9, *Desert Animals*
Pg: 112-116 About Desert Animals
Ch 10, *The Banyan Tree*

(VI) English (Supplementary)

Ch 8, *A Pact with the Sun*
Pg: 28-32 Healing power of sun

(VII) English (Textbook)

Ch 8, *Fire- Friend or Foe?*
Pg: 119-118 Utilisation of fire for human needs

(VII) English (Supplementary)

Ch 2, *Bringing up Kari*
Pg: 7-13 Domestication of Elephant
Ch 6, *I want Something in a Cage*

	<p>Pg: 36-42 Do Not Cage Animals Ch 7, <i>Chandini</i> Pg: 43-51 Stop Domestication of goats Ch 9, <i>Tiger in the House</i> Pg: 58-63 Domestication of Tiger in a zoo</p> <p>(VI) Hindi (Vasant-1) Ch 3, <i>Nadaan Dost</i> Pg: 13-22</p> <p>(VII) Hindi (Durva-2) <i>Chidiya aur Churugun</i> <i>Gubbare par Chitha</i></p> <p>(X) Hindi (Sparsh –2) Ch 6, <i>Ab Kaha Doosro ke Dukh Me Dukhi Hone Wale</i> Pg: 111-116</p> <p>(XII) Hindi (Antraal-2) Ch 2, <i>Aarohan</i> Pg: 12-32 Ch 3, <i>Nagatalai Ki Gaon</i> Pg: 33-41 Ch 4, <i>Apna Malva-khau Ujadu Sabhyatha Me</i> Pg: 43-48</p>
<p>6.1.3 Interdependence of plants and animals</p>	<p>(VI) Science Ch 1, <i>Food</i> Pg: 1-7 Ch 2, <i>Components of Food</i> Pg: 8-17</p> <p>(XII) Biology Ch 9, <i>Strategies for Enhancement in Food Production</i> Pg: 173-175 Plant Breeding for Disease Resistance Pg: 175 Plant Breeding for Developing Resistance to Insect Pests</p> <p>(IX) Geography Ch 5, <i>Natural Vegetation and Wildlife</i>, Pg: 42-51</p> <p>(VI) English (Text Book) Ch 3, <i>Taro's Reward</i> Pg: 29-34 Human Dependence on Environment</p> <p>(VI) English (Supplementary) Ch 8, <i>A Pact with the Sun</i> Pg: 28-32 Healing Power of Sun</p>

	<p>(VII) English (Supplementary) Ch 2, <i>Bringing up Kari</i> Pg: 7-13 Domestication of Elephant Ch 6, <i>I want Something in a Cage</i> Pg: 36-42 Not Cage Animals Ch 7, <i>Chandini</i> Pg: 43-51 Stop Domestication of goats Ch 9, <i>Tiger in the House</i> Pg: 58-63 Domestication of Tiger in a zoo</p> <p>(VII) Hindi (Vasant-2) Ch 3, <i>Himalaya ki Betiyan</i> Pg: 12-17 Ch 9, <i>Chidiya ki Bacchi</i> Pg: 67-74</p> <p>(IX) Hindi (Chhitij-1) Ch 2, <i>Lahasa ki Or</i> Pg: 25-33 Ch 4, <i>Sawle Sapno ki Yaad</i> Pg: 43-49 Ch 8, <i>Ek Kutta aur Ek Mena</i> Pg: 79-86 Ch 13, <i>Gram Shri</i> Pg: 13-16 Ch 14, <i>Chandra Grahan se Laudthi Ber</i> Pg: 119-123 Ch 15, <i>Megh Aaye</i> Pg: 127-130</p> <p>(VII) Urdu (Textbook) <i>Mera Vattan</i> Pg: 1-3 <i>Salimali</i> Pg: 57-59</p> <p>(VII) Urdu (Supplementary) <i>Garmi</i> Pg: 23-26 <i>Barsaat</i> Pg: 63-65 <i>Bahaar</i> Pg: 41-42 <i>Pyara Vattan</i> Pg: 19-22 <i>Thithli</i> Pg: 23-25 <i>Jameen ke Taare</i> Pg: 29-30</p>
<p>6.2 Natural Resources and their Utilization</p>	<p>(IX) Science Ch 14, <i>Natural Resources</i> Pg: 189 Air Pg: 191 Rain Pg: 193 Water Pg: 195 Mineral Riches in the Soils</p> <p>(X) Geography Ch 1, <i>Resource and Development</i>, Pg: 1-12 Ch 2, <i>Forest and Wildlife Resources</i>, Pg:14-21 Ch 3, <i>Water Resources</i>, Pg: 23-32 Ch 4, <i>Agriculture</i>, Pg: 34-47</p>

	<p>(IX) Hindi (Sparsh –1) Ch 1, <i>Dhool</i> Pg: 7-12 Ch 6, <i>Kitched ka kavya</i> Pg: 56-61</p>
<p>6.2.1 Natural resources - air, water, land (soil and minerals) and sunlight (energy); significance for growth, development and survival of all organisms</p>	<p>(VI) Science Ch 7, <i>Getting to Know the Plants</i> Pg: 52-65 Ch 9, <i>The Living Organisms and their Surroundings</i> Pg: 79-94 Habitat of Plants and Animals Ch 14, <i>Water</i> Pg: 136-146 Ch 15, <i>Air Around Us</i> Pg: 147-154</p> <p>(VII) Science Ch 9, <i>Soil</i> Pg: 96-107 Ch 17, <i>Forest our Lifeline</i> Pg: 206-219</p> <p>(IX) Science Ch 14, <i>Natural Resources</i> Pg: 189 Air Pg: 191 Rain Pg: 193 Water Pg: 195 Mineral Riches in the Soils</p> <p>(X) Science Ch 16, <i>Management of Natural Resources</i> Pg: 273 Water for All</p> <p>(VII) Geography Ch 1, <i>Environment</i>, Pg: 1-5 Components of natural environment and human environment. What is an Eco System Ch 3, <i>Our Changing Earth</i> Pg: 12-17 Ch 4, <i>Air</i>, Pg: 20-27 Ch5, <i>Water</i> Pg: 30-37 Ch 6, <i>Natural Vegetation and Wild Life</i> Pg: 39-44</p> <p>(XI) Geography (India Physical Environment) Ch 5, <i>Natural Vegetation</i> Pg: 57-66 Ch 6, <i>Soils</i> Pg: 68-74</p> <p>(XI) Geography (Fundamentals of Physical Geography) Ch 13, <i>Water</i> Pg: 112-118 Ch 5, <i>Minerals and Rocks</i>, Pg: 40-44</p>

	<p>(VI) English (Supplementary) Ch 8, <i>A Pact with the Sun</i> Pg: 28-32 Healing Power of Sun</p> <p>(VII) Hindi (Vasant-2) Ch 3, <i>Himalaya ki Betiyan</i> Pg: 12-17 Ch 9, <i>Chidiya ki Bacchi</i> Pg: 67-74</p> <p>(X) Hindi (Chhitij –2) Ch 3, <i>Darr Dhrum Palana</i> Pg: 21 Ch 5, <i>Kavith</i> Pg: 22 Ch 5, <i>Utsah At Nahi Rahi Hai</i> Pg: 33-36</p> <p>(XI) Hindi (Antra-1) <i>Kavith</i> Pg: 136-138 <i>Sandhya ke baad</i> Pg: 141-146 <i>Baadal ko Girte Deka</i> Pg: 161-166</p> <p>(XII) Hindi (Aaroh-2) Ch 17, <i>Hazari Parsaad Divedi</i> Pg: 143-150 <i>Shirish ke Phool</i></p> <p>(XII) Hindi (Antra-2) (Kavya Khand) Ch 1, <i>Karneliya ka Geet</i> Pg: 5-6 Ch 6, <i>Basant Aaya, Thodo</i> Pg: 35-40 Ch 8, <i>Bharhamasa</i> Pg: 48-54 (Gadh Khand) Ch 7, <i>Jaha Koi Vapsi Nahi</i> Pg: 133-140 Ch 10, <i>Kuttaj</i> Pg: 160-169</p>
<p>6.2.2 Utilization of resources for developmental and social activities _ production of food, electricity and fuels, construction and other infrastructure</p>	<p>(VI) Science Ch 3, <i>Fibre to Fabric</i> Pg: 18-25 Ch 5, <i>Separation of Substances</i> Pg: 35-45 Ch 9, <i>The Living Organism and their Surrounding</i> Pg: 79-94</p> <p>(VII) Science Ch 3, <i>From Fibre to Fabric</i> Pg: 24-34 Pg: 28 Activity-Is it just on human being’s part to shear the Sheep</p> <p>(IX) Science Ch 15, <i>Improvement in Food Resources</i> Pg: 203-209 Improvement in Crop Yields</p>

(XII) Biology

Ch 9, *Strategies for Enhancement in Food Production*

Pg: 165-170 Animals Breeding, Bee – Keeping and Fisheries

Pg: 170-176 Plant Breeding

Pg: 176-177 Single Cell Protein

Pg: 177 Tissue Culture

(X) Geography

Ch 1, *Resource and Development* Pg: 1-12

Ch 2, *Forest and Wildlife Resources* Pg: 14-21

Ch 3, *Water Resources* Pg: 23-32

Ch 4, *Agriculture* Pg: 34-47

Ch 6, *Mineral and Energy Resources* Pg: 50-61

Ch 8, *Lifeline of National Economy* Pg: 91 Box- Natural Environment and Tourism

(VII) Political Science

Ch 10, *Struggles for Equality*

Pg: 117-118 Utilisation of Resources – Tawa Matsya Sangh (Construction of Dams)

(XII) Political Science

Ch 7, *Security in the Contemporary World*

Pg: 114 Utilisation of Resources (Let's Do It Together)

(IX) History

Ch 4, *Forest Society and Colonialism* Pg: 77-96

Ecological history of India - Effect of industrial expansion on forest cover, deforestation the rise of commercial forestry, shifting Cultivation

Pg: 79 Box 1- On rise of Commercial forestry displacing indigenous people

Pg: 88 Fig: 18-Rise of commercial forestry and consequent decline in tiger population

Pg: 87 Fig: 16-Shifting Cultivation

Pg: 95 War and deforestation

Pg: 96 Activity-Perceive the Conflicting Interest of a Colonial forest and Adivasis on the issue of Hunting in the forest

Ch 5, *Pastoralists in the Modern world* Pg: 97-116

Pg: 104 Activity-Comment on the closure of the forest to closure from the stand point of a forester

	<p>and a pastoralists Pg: 105 Activity-On Criminal Tribes Ch 6, <i>Peasants and Farmers</i> Pg 117-138 Capitalist development and its effect on environment Pg: 118-123 Enclosure movements of agricultural land in Britain Pg: 130 Environment strike back on enclosure movements</p> <p>(X) History Ch 4, <i>The Making of a Global World</i> Pg: 78-102 Colonialism Ch 5, <i>The Age of Industrialisation</i> Pg: 104 Activity-Modern developmental activity and its effect on environment Ch 6, <i>Work, Life and Leisure</i> Pg: 140-146 City in Colonial India Pg: 142 Housing problems Pg: 143 Box-Why spaces can't be cleared Pg: 144 Land reclamation in Bombay Pg: 148 Cities and the Challenges of the environment</p> <p>(VII) English (Textbook) Ch 8, <i>Fire- Friend or Foe?</i> Pg: 119-118 Utilisation of fire for human needs</p>
6.2.3 Over utilisation of resources	
6.3 Waste Generation	<p>(VI) Science Ch 16, <i>Garbage in Garbage out</i> Pg: 155-165 Pg: 155 Dealing with Garbage Pg: 156-157 Activity-Sort Garbage in Home into Organic and Inorganic, Compost Making, Burning of Waste and Air Pollution Pg: 158 Vermicomposting Pg: 160 Promote Paper Carry Bags Pg: 162 On Plastics</p> <p>(VII) Science Ch 5, <i>Acid, Bases and Salts</i> Pg: 49-57 Pg: 55 Factory Waste and its consequences on Environment Ch 18, <i>Waste Water Story</i> Pg: 220-230 Pg: 221 Sewerage Pg: 221 Activity-Analysis of Sewerage of Water Pg: 222 Waste Treatment</p>

	<p>Pg: 224 Your Role in Waste Management Pg: 226 Waste, Sanitation and Health</p>
6.3.1 Generation of waste and its sources	<p>(X) Science Ch. 15, <i>Our Environment</i> Pg.261 How do our activities affect the environment – waste generation</p> <p>(XII) Biology Ch 6, <i>Environmental Issues</i> Pg: 278-279 Solid Wastes Pg: 280 Radioactive Wastes</p>
6.3.2 Types of waste - solid, liquid and gaseous	<p>(VII) Science Ch, 18, <i>Waste Water Story</i> Pg: 221-224 What is Sewage?</p> <p>(XII) Biology Ch 6, <i>Environmental Issues</i> Pg: 278-279 Solid Wastes</p>
6.3.3 Hazards of waste accumulation	<p>(X) Science Ch. 15, <i>Our Environment</i> Pg. 256 Hazards of waste to Environment Pg: 256 Activity 15.1-Finding out Hazards due to Waste Accumulation</p>
6.3.4 Waste, community health and sanitation	<p>(XII) Biology Ch 10, <i>Microbes in Human Welfare</i> Pg: 183-185 Microbes in Sewage Treatment Pg: 185-186 Microbes in Production of Biogas</p>
6.4 Management of Waste	<p>(VI) Science Ch 16, <i>Garbage in Garbage out</i> Pg: 155-165 Pg: 155 Dealing with Garbage Pg: 156-157 Activity-Sort Garbage in Home into Organic and Inorganic, Compost Making, Burning of Waste and Air Pollution Pg: 158 Vermicomposting Pg: 160 Promote Paper Carry Bags Pg: 162 On Plastics</p> <p>(VII) Science Ch 18, <i>Waste Water Story</i> Pg: 220-230 Pg: 221 Sewerage Pg: 221 Activity-Analysis of Sewerage of Water Pg: 222 Waste Treatment Pg: 224 Your Role in Waste Management</p>

	<p>(VI) Political Science Ch 7, <i>Urban Administration</i> Pg: 60 Photograph of a Recycling Unit Pg: 61 Box-Sub Contracting of Garbage Collection and its Hazards Pg: 64 Activity-Different Ways of Collecting and Disposing Garbage</p> <p>(VII) Political Science Ch 3, <i>How the State Government Works</i> Pg: 37 Box-Management of Waste – Garbage Disposal and Health Issues</p>
<p>6.4.1 Waste and its disposal: solid waste (physical removal and dumping), liquid waste (drainage and sewer system) and gaseous waste (discharged directly into air)</p>	<p>(XII) Biology Ch 10, <i>Microbes in Human Welfare</i> Pg: 179-189 Microbes for Waste Disposal</p> <p>(XI) Chemistry Ch 14, <i>Environmental Chemistry</i> Pg: 409-410 Industrial Waste Pg: 410 Box-Waste Recycling</p> <p>(VI) Political Science Ch 7, <i>Urban Administration</i> Pg: 61 Box-Sub Contracting of Garbage Collection and its Hazards Pg: 64 Activity-Different Ways of Collecting and Disposing Garbage</p>
<p>6.4.2 Conditions for proper waste management co-operation of individuals and community; proper functioning of governmental and local bodies</p>	<p>(X) Science Ch. 15, <i>Our Environment</i> Pg: 262 Activity 15.7-How Government deals with Waste</p> <p>(XI) Chemistry Ch 14, <i>Environmental Chemistry</i> Pg: 409-410 Industrial Waste Pg: 410 Box-Waste Recycling</p> <p>(XII) Psychology Ch 6 <i>Attitude and Social Cognition</i> Pg: 127 Project Ideas-Attitude towards and Awareness of Waste Management</p>
<p>Class VII</p>	
<p>7.1 Environment and Natural Resources</p>	<p>(VI) Science Ch 15, <i>Air Around Us</i> Pg: 147-154</p>

(VII) Science

Ch 9, *Soil* Pg: 96-107

Ch 17, *Forest our Lifeline* Pg: 206-219

(IX) Science

Ch 14, *Natural Resources*

Pg: 189 Air

Pg: 193 Water

Pg: 195 Mineral Riches in the Soils

(VII) Geography

Ch 1, *Environment* Pg: 1-5

Ch 4, *Air*, Pg: 20-29

Ch 5, *Water* Pg: 30-38

Ch 6, *Natural Vegetation and Wildlife* Pg: 39-46

(X) Geography

Ch 1, *Resources and Development* Pg: 1-12

Ch 2, *Forest and Wild Life Resources* Pg: 14-22

Ch 3, *Water Resources* Pg: 23-33

(XI) Geography (Fundamental of Physical Geography)

Ch 13, *Water* Pg: 112-119

Ch 5, *Minerals and Rocks* Pg: 40-44

(XI) Geography (India Physical Environment)

Ch 6, *Soil* Pg: 68-75

Ch 5, *Natural Vegetation* Pg: 57-67

(VII) English (Textbook)

Ch 5, *Quality*

Pg: 83 Tree

(IX) Hindi (Chhitij-1)

Ch 2, *Lahasa ki Aor* Pg: 25-33

Ch 4, *Sawale sapno ki yaad* Pg: 43-49

Ch 8, *Ek Kutta aur Ek Mena* Pg: 79-86

Ch 13, *Gram Shri* Pg: 13-16

Ch 14, *Chandra Grahan se louathi Ber* Pg: 119-123

Ch 15, *Megh Aaye* Pg: 127-130

(IX) Hindi (Sparsh –1)

Ch 1, *Dhool* Pg: 7-12

	<p>Ch 6, <i>Kitched ka kavya</i> Pg: 56-61</p> <p>(X) Hindi (Chhitij –2) Ch 3, <i>Daar Dhrum Palana</i> Pg: 21 Ch 5, <i>Kavith</i> Pg: 22 Ch 5, <i>Utsah At Nahi Rahi Hai</i> Pg: 33-36</p> <p>(XI) Hindi (Antra-1) <i>Kavith</i> Pg: 136-138 <i>Sandhya ke Baadh</i> Pg: 141-146 <i>Baadal ko Girthe Dekha</i> Pg: 161-166</p> <p>(XII) Hindi (Aaroh-2) Ch 17, <i>Hazari Parsad Divedi</i> Pg: 143-150 <i>Shirish ke Phool</i></p> <p>(XII) Hindi (Antra-2) (Kavya Khand) Ch 1, <i>Karneliya ka Geet</i> Pg: 5-6 Ch 6, <i>Basant Aaya, Toodo</i> Pg: 35-40 Ch 8, <i>Bharhamasa</i> Pg: 48-54 (Gadh Khand) Ch 7, <i>Jaha Koi Vapsi Nahi</i> Pg: 133-140 Ch 10, <i>Kuttaj</i> Pg: 160-169</p> <p>(XII) Hindi (Antraal-2) Ch 2, <i>Arohan</i> Pg: 12-32 Ch 3, <i>Nagatalai Ki Gaon</i> Pg: 33-41 Ch 4, <i>Apna Malva-khau Ujadu Sabhyatha me</i> Pg: 43-48</p> <p>(VII) Urdu (Textbook) <i>Mera Vattan</i> Pg: 1-3 <i>Salimali</i> Pg: 57-59</p> <p>(VII) Urdu (Supplementary) <i>Garmi</i> Pg: 23-26 <i>Barsaat</i> Pg: 63-65 <i>Bahaar</i> Pg: 41-42 <i>Pyara Vattan</i> Pg: 19-22 <i>Thithli</i> Pg: 23-25 <i>Jameen ke Thaaare</i> Pg: 29-30</p>
<p>7.1.1 Water - a precious resource; essential for life and life activities, a habitat of plants and animals (fresh and marine), sources of water</p>	<p>(IX) Science Ch 14, <i>Natural Resources</i> Pg: 193-194 Water</p>

<p>(fresh and marine) _ rain, snow, ponds, wells, lakes, rivers and seas</p>	<p>(X) Science Ch 16, <i>Management of Natural Resources</i> Pg: 273 Water for All</p> <p>(IX) English (Textbook – Beehive) Ch 3, <i>The Little Girl</i> Pg: 41 Rain (Poem)</p> <p>(VII) Hindi (Vasant-2) Ch 3, <i>Himalaya ki Betiyan</i> Pg: 12-17 Ch 9, <i>Chidiya ki Bacchi</i> Pg: 67-74</p>
<p>7.1.2 Air - atmosphere as reservoir of air; role of atmosphere _ a blanket for the earth, for maintaining humidity and temperature, a source of gases and medium for dispersal of gaseous wastes</p>	<p>(VI) Science Ch 15, <i>Air Around Us</i> Pg: 147-154</p> <p>(IX) Science Ch 14, <i>Natural Resources</i> Pg: 189 Breath of Life- Air</p> <p>(VII) Geography, Ch 4, <i>Air</i> Pg: 20-27</p>
<p>7.1.3 Soil - a medium for growth of plants, types of soil, habitat for organisms, facilitator for percolation and retention of water.</p>	<p>(VII) Science Ch 9, <i>Soil</i> Pg: 96-107</p> <p>(IX) Science Ch 14, <i>Natural Resources</i> Pg: 195 Mineral Riches in Soil</p> <p>(XI) Geography (India Physical Environment) Ch 6, <i>Soil</i> Pg: 68-75</p>
<p>7.1.4 Forests - a habitat for plants and animals, an agent for percolation and retention of water; maintaining ground water level; prevention of soil erosion; maintaining air humidity; a source of firewood, timber, fruits, lac, resins and medicinal plants</p>	<p>(VII) Science Ch 17, <i>Forest our Lifeline</i> Pg: 206-219</p> <p>(X) Science Ch 16, <i>Management of Natural Resources</i> Pg: 269 Forest and Wild Life</p> <p>(X) Geography Ch 2, <i>Forests and Wildlife Resources</i>, Pg: 14-21</p> <p>(VI) English (Supplementary) Ch 9, <i>What Happened to the Reptiles</i> Pg: 33-42 Important of Coexistence of all animals for the conservation of forest</p>

	<p>(IX) English (Textbook- Beehive) Ch 8, <i>Reach for the Top (Part-II)</i> Pg: 110 On Killing a Tree (Poem)</p> <p>(X) English (Textbook) Ch 7, <i>Glimpses of India</i> Pg: 90-92 Coorg Pg: 99-100 Trees (Poem) Deforestation</p> <p>(XII) Hindi (Antraal-2) Ch 2, <i>Aarohan</i> Pg: 12-32 Ch 3, <i>Nagatalai Ki Gaon</i> Pg: 33-41 Ch 4, <i>Apna Malva-khau Ujaadu Sabhyatha me</i> Pg: 43-48</p>
7.2 Man and Environment	<p>(VI) Science Ch 3, <i>Fibre to Fabric</i> Pg: 18-25 Ch 5, <i>Separation of Substances</i> Pg: 35-45 Ch 9, <i>The Living Organism and their Surrounding</i> Pg: 79-94</p> <p>(VII) Science Ch 3, <i>From Fibre to Fabric</i> Pg: 24-34 Pg: 28 Activity-Is it Just on Human Being's Part to shear the Sheep</p> <p>(VII) Geography Ch 7, <i>Human Environment</i>, Pg: 47-54 Ch 8, <i>Human Environment Interaction</i>, Pg: 55-69</p> <p>(VII) English (Supplementary) Ch 1, <i>The Tiny Teacher</i> Pg: 1-3 Life of an Ant Ch 3, <i>The Desert</i> Pg: 15-19 Life in a Desert</p> <p>(IX) English (Textbook – Beehive) Ch 8, <i>Reach for the Top (Part-II)</i> Pg: 110 On Killing a Tree (Poem) Ch 9, <i>Bond of Love</i> Pg: 113-118 Bondage between human being and animals</p> <p>(X) English (Textbook) Ch 2, <i>Nelson Mandela: Long Walk to Freedom</i> Pg: 29 A Tiger in the zoo (Poem) on</p>

domestication

Pg: 30 The Tiger (Poem) on domestication

Pg: 31 The Panther (Poem) on domestication

Ch 8, *Mijbil The Otter*

Pg: 104-110 Domestication

(X) English (Supplementary)

Ch 6, *The Making of a Scientist*

Pg: 33 Box- Species & sub Species of Butterflies collected in six weeks in reading, Pennsylvania

Pg: 32-37 About collecting Butterflies

(XII) English (Supplementary)

Ch 2, *The Tiger King*

Pg: 9-17 A Story about how hunting led to the extinction of tiger population in the forest and how the tiger takes its revenge

(VI) Hindi (Vasant-1)

Ch 3, *Nadaan Dost* Pg: 13-22

(VII) Hindi (Durva-2)

Chidiya aur Churugun

Gubbare par Chitha

(IX) Hindi (Chhitij-1)

Ch 2, *Lahasa ki Or* Pg: 25-33

Ch 4, *Sawale Sapno Ki Yaad* Pg: 43-49

Ch 8, *Ek Kutta aur Ek Mena* Pg: 79-86

Ch 13, *Gram Shri* Pg: 13-16

Ch 14, *Chandra Grahana se Lodthi Ber* Pg: 119-123

Ch 15, *Megh Aaye* Pg: 127-130

(X) Hindi (Kritika-2)

Ch 3, *Saana Saana Haath Jodi* Pg: 17-30

(X) Hindi (Sparsh -2)

Ch 6, *Ab Kaha Doosro ke Dukh Me Dukhi Hone Wale* Pg: 111-116

(XII) Hindi (Antraal-2)

Ch 2, *Arohan* Pg: 12-32

Ch 3, *Nagatalai Ki Gaon* Pg: 33-41

Ch 4, *Apna Malva-Khau Ujjadu Sabhyatha Me*

	<p>Pg: 43-48</p> <p>(VI) Urdu (Textbook) <i>Pahaad Aur Gilhari</i> Pg: 17-18 <i>Aasmani Dost</i> Pg: 29-34</p> <p>(VI) Urdu (Supplementary) <i>Ghore Aur Hiran Ki Kahani</i> Pg: 49-51 <i>O Subah ke Sithare</i> Pg: 103-104 <i>Kachua Aur Thaalab</i> Pg: 31-36 <i>Theen Khachue</i> Pg: 41-45</p> <p>(XI) Urdu (Supplementary) <i>Abejulal</i> Pg: 10-12</p> <p>(XI) Urdu (Textbook) <i>Gori O Gori</i> Pg: 68-74 <i>Albeli Subah</i> Pg: 191</p>
<p>7.2.1 Response of living beings to changes in environment adaptation in plants and animals</p>	<p>(XII) Psychology Ch 8 <i>Psychology and Life</i> Pg: 155- 156 Environmental effects on Human Behaviour</p>
<p>7.2.2 Modification of environment by human beings to protect themselves against changes and meet their needs</p>	<p>(VI) Political Science Ch 1, <i>Understanding Diversity</i>, Pg: 8 Ch 8, <i>Rural Livelihoods</i> Pg: 72 Terrace Farming in Nagaland –Box</p> <p>(VII) Political Science Ch 10, <i>Struggles for Equality</i> Pg: 117-118 Modification of Environment (Dams)</p> <p>(IX) History Ch 4 <i>Forest Society and Colonialism</i> Pg: 77-96 Ecological history of India Effect of industrial expansion on forest cover, deforestation the rise of commercial forestry, shifting Cultivation Pg: 79 Box 1- On rise of Commercial forestry displacing indigenous people Pg: 88 Fig: 18- Rise of commercial forestry and consequent decline in tiger population Pg: 87 Fig: 16-Shifting Cultivation Pg: 95 War and deforestation Pg: 96 Activity- Perceive the Conflicting Interest of a Colonial forest and an Adivasi on the issue of Hunting in the forest</p>

	<p>Ch 5, <i>Pastoralists in the Modern World</i> Pg: 97-116 Pg: 104 Activity-Comment on the closure of the forest to closure from the stand point of a forester and a pastoralists Pg: 105 Activity-On Criminal Tribes Ch 6, <i>Peasants and Farmers</i> Pg 117-138 Capitalist development and its effect on environment Pg: 118-123 Enclosure movements of agricultural land in Britain Pg: 130 Environment strike back on enclosure movements</p> <p>(X) History Ch 4, <i>The Making of a Global World</i> Pg: 78-102 Colonialism Ch 5, <i>The Age of Industrialisation</i> Pg: 103-126 Pg: 104 Activity-Modern developmental activity and its effect on environment Ch 6, <i>Work, Life and Leisure</i> Pg: 127-150 Pg: 140-146 City in Colonial India Pg: 142 Housing problems Pg: 143 Box-Why spaces can't be cleared Pg: 144 Land reclamation in Bombay Pg: 148 Cities and the Challenges of the environment</p>
<p>7.2.3 Effect of human activities and population growth on agriculture, harnessing of energy, housing, industrial development and other areas of consumption and social activities (an elementary idea)</p>	<p>(IX) Geography Ch 6, <i>Population</i>, Pg: 53-59</p> <p>(VII) Political Science Ch 6, <i>Understanding Media</i> Pg: 74 News Paper Reports on Pollution – Box Pg: 76 Media on Pesticide</p> <p>(IX) History Ch 4, <i>War and deforestation</i> Pg: 95 Pastoralists in the modern world. Pg: 97-116 Pg: 106 Activity-comment on the closure of the forest from the stand point of forester and Pastoralists Pg: 107 Activity-Criminal tribes Ch 6, <i>Peasants and Farmers</i> Pg 117-138 Capitalist development and its effect on</p>

	<p>environment Pg: 118-123 Enclosure movements of agricultural land Britain Pg: 130 Environment strike back on enclosure movements</p>
<p>7.2.4 Consequences of human activities - stress on land use, water sources, energy and mineral resources; forests, ocean life; environmental degradation.</p>	<p>(VI) Science Ch 14, <i>Water</i> Pg: 136-146 Pg: 136 Activity-Measurement of Daily Consumption of Water in the House Pg: 141 Ground Water Depletion</p> <p>(VII) Science Ch 16, <i>Water</i> Pg: 195-205 Pg: 197 Water scarcity and women Pg: 195 Current Availability of fresh Water Pg: 194 Activity-Scrap Book on News Paper cutting on water scarcity and depletion Pg: 198 Depletion of Water Table Pg: 199 Activity-Industry as the main culprit in depletion of water table Ch 17, <i>Forest: our Lifeline</i> Pg: 206-219 Pg: 211 Deforestation and its effect on the Ecosystem of the forest Pg: 215 Deforestation and its link to soil erosion, flooding, and variation in world temperature</p> <p>(X) Science Ch 14, <i>Sources of Energy</i> Pg. 253 How long Energy will Last Us</p> <p>(XI) Chemistry Ch 9, <i>Hydrogen</i> Pg: 276-291 Pg: 281 Box-Estimating World Water Supply Pg: 287 Table-Energy released by combustion of various fuels Ch 10, <i>The S Block Elements</i> Pg: 291-306 Metal as Air Pollutants</p> <p>(X) Geography Ch 1, <i>Resources and Development</i>, Pg: 1-12 Ch 5, <i>Mineral and Energy Resources</i>, Pg: 50-69</p> <p>(XI) Geography (India Physical Environment) Ch 7, <i>Natural Hazard and Disasters</i>, Pg: 77-93</p>

	<p>(X) Political Science Ch 5, <i>Popular Struggles and Movements</i> Pg: 68 Forest Depletion – Green Belt Movement</p> <p>(XII) Political Science Ch 7, <i>Security in the Contemporary World</i> Pg: 114 Environmental Degradation as a Consequence of Human Activity (Let’s Do It Together) Pg: 115 Environmental Degradation as a Security threat (Exercise)</p> <p>(XII) English (Supplementary) Ch 2, <i>The Tiger King</i> Pg: 9-17 A Story about how hunting led to the extinction of tiger population in the forest and how the tiger takes its revenge</p> <p>(XII) Hindi (Antraal-2) Ch 2, <i>Arohan</i> Pg: 12-32 Ch 3, <i>Nagatalai Ki Gaon</i> Pg: 33-41 Ch 4, <i>Apna Malva-khau Ujjadu Sabhyatha Me</i> Pg: 43-48</p>
<p>7.2.5 Role of individuals in maintaining peace, harmony and equity in nature; good neighbourly behaviour; use and misuse of common property resources</p>	<p>(X) Political Science Ch 5, <i>Popular Struggles and Movements</i> Pg: 60 Bolivia’s Water War Pg: 65 Narmada Bachao Andolan Pg: 68 Green Belt Movement</p> <p>(XII) Political Science Ch 8, <i>Environment and Natural Resources</i> Pg: 120-124 Conflict Over Traditional Common Property Resources</p>
<p>Class VIII</p>	
<p>8.1 Balance in Nature</p>	<p>(VII) Geography Ch 1, <i>Environment</i>, Pg: 4-5</p> <p>(XI) Geography (Fundamentals of Physical Geography) Ch 15, <i>Life on the Earth</i>, Pg: 127-129,132-133</p> <p>(IX) English (Textbook- Beehive)</p>

	<p>Ch 8, <i>Reach for the Top (Part-II)</i> Pg: 110 On Killing a Tree (Poem) Ch 9, <i>Bond of Love</i> Pg: 113-118 Bondage between human being and animals</p> <p>(IX) English (Supplementary) Ch 6, Weathering the Storm in Ersame Pg: 37-42 A Story about storm & its Effects</p> <p>(X) English (Textbook) Ch 2, <i>Nelson Mandela: Long Walk to Freedom</i> Pg: 29 A Tiger in the zoo (Poem) on domestication and its bad effects Pg: 30 The Tiger (Poem) on domestication and its bad effects Pg: 31 The Panther (Poem) on domestication and its bad effects Ch 8, <i>Mijbil The otter</i> Pg: 104-110 Domestication and its bad effects</p> <p>(XII) English (Supplementary) Ch 2, <i>The Tiger King</i> Pg: 9-17 A Story about how hunting led to the extinction of tiger population in the forest and how the tiger takes its revenge. Ch 3, <i>Journey to the End of the Earth</i> Pg: 18-22 About Antarctica, How its simple ecosystem & lack of biodiversity makes it a perfect place to study environmental changes.</p>
<p>8.1.1 Eco-system interaction between living and non-living components, structure and function;</p>	<p>(X) Science Ch. 15, <i>Our Environment</i> Pg: 257 Components of Eco System</p> <p>(VII) Geography Ch 1, <i>Environment</i> Pg: 4 What is an Eco-System</p>
<p>8.1.2 Energy flow through ecosystem (food chain, food webs); examples of terrestrial and marine food chains; and</p>	<p>(X) Science Ch 15, <i>Our Environment</i> Pg: 259-260 Food Chains</p>
<p>8.1.3 Balance in nature importance of eco-system.</p>	<p>(VI) English (Supplementary) Ch 1, <i>A Tale of two Birds</i> Pg: 1-3 Ch 2, <i>The friendly Mongoose</i> Pg: 4-6 Describing Harmonious relationship between animals, human beings & nature Ch 9, <i>What Happened to the Reptiles</i></p>

	<p>Pg: 33-42 Important of Coexistence of all animals for the conservation of forest</p> <p>(IX) English (Supplementary) Ch 6, Weathering the Storm in Ersame Pg: 37-42 A Story about storm & its Effects</p> <p>(IX) Hindi (Sparsh –1) Ch 1, <i>Dhool</i> Pg: 7-12 Ch 6, <i>Kitched ka Kaavya</i> Pg: 56-61</p> <p>(XI) Hindi (Aaroh-1) Ch 6, <i>Spithi me Barish</i> Pg: 70-78 Ch 10, <i>Aao Milkar Bachaye</i> Pg: 181-183</p> <p>(XI) Hindi (Vittaana-1) <i>Rajasthan ke Rajat boonde</i> Pg: 9-20</p> <p>(XII) Hindi (Antraal-2) Ch 2, <i>Arohan</i> Pg: 12-32 Ch 3, <i>Nagatalai Ki Gaon</i> Pg: 33-41 Ch 4, <i>Apna Malva-khau Ujjadu Sabhyatha me</i> Pg: 43-48</p>
8.2 Impact of Population on Environment	
8.2.1 Impact of population growth on ecosystem, human settlements, and distribution.	(XII) Geography <i>Ch 2, The World Population</i> , Pg:8-15
8.2.2 Stress due to population growth on common social facilities and civic services;	
8.3 Harnessing Resources	(X) Geography Ch 1, <i>Resource and Development</i> , Pg: 1-13 Ch 2, <i>Forest and Wild Life Resources</i> , Pg: 14-22 Ch 3, <i>Water Resources</i> , Pg: 23-32
8.3.1 Increase in consumption, encroachment on monuments	
8.3.2 Sources of energy - renewable and non-renewable sources, availability and potential (Indian context);	(X) Science Ch 14, <i>Sources of Energy</i> Pg: 242-254
	(XI) Chemistry Ch 9, <i>Hydrogen</i> Pg: 276-291 Pg: 287 Table-Energy released by combustion of Various fuels Pg: 287 Hydrogen Economy Ch 13, <i>Hydrocarbons</i> Pg: 365-397

	<p>(X) Geography Ch 5, <i>Mineral and Energy Resources</i>, Pg: 50-63</p> <p>(XII) Hindi (Vittaan-2) Ch 3, <i>Attit me Dabe Paon</i> Pg:35-52</p>
<p>8.3.3 Renewable sources - solar, wind, hydro-energy, ocean (tidal), biomass including bio wastes;</p>	<p>(X) Science Ch 14, <i>Sources of Energy</i> Pg: 246 Biomass Pg: 247 Wind Energy Pg: 249 Solar Energy Pg: 250 Energy Form the Sea, Tidal Wave</p>
<p>8.3.4 Non-renewable sources - coal, petroleum and its products, natural gas;</p>	<p>(X) Science Ch 4, <i>Carbon and its Compounds</i> Pg: 70 Box- Coal and Petroleum Ch 16, <i>Management of Natural Resources</i> Pg: 277 Coal and Petroleum</p> <p>(XI) Chemistry Ch 9, <i>Hydrogen</i> Pg: 276-291 Pg: 281 Box-Estimated World Water Supply Pg: 287 Table, Energy released by combustion of various fuels Ch 13, <i>Hydrocarbons</i> Pg: 365-397 Pg: 365 (On LPG)</p>
<p>8.3.5 Agriculture and animal husbandry - impact on environment;</p>	<p>(IX) Science Ch 15, <i>Improvement in Food Resources</i> Pg: 203-208 Agriculture, Crop Improvement, Irrigation Pg: 209-213 Animal Husbandry</p> <p>(X) Geography Ch 4, <i>Agriculture</i>, Pg: 50-63</p>
<p>8.3.6 Utilization of resources for Industry - processing and production of goods; need for planning and management; adoption of efficient and environment friendly technologies; industrial waste management practices; and Environmental concerns- regional and national.</p>	<p>(X) Science Ch 15, <i>Our Environment</i> Pg: 263 Managing the Garbage we produce Pg: 263 Activity 15.9-Industrial Effluent</p> <p>(XI) Chemistry Ch 14, <i>Environmental Chemistry</i> Pg: 409-410 (Industrial Waste) Pg: 410 Box-Waste Recycling</p> <p>(X) Geography Ch 6, <i>Manufacturing Industries</i>, Pg: 65-80</p>

<p>8.4 Environmental Pollution _ Cause and Effect</p>	<p>(XII) Psychology Ch 8 <i>Psychology and Life</i> Pg: 175 Project Ideas – Household Survey on Causes of pollution and its effects on health</p> <p>(X) Urdu (Textbook) <i>Mahaul Bachaiye</i> Pg: 97-101</p>
<p>8.4.1 Emerging lifestyles in modern societies – over utilisation of resources; increasing consumption of energy (electricity and fuels), materials and facilities; synthetic materials _ plastics, detergents, paints and refrigerants; advantages and disadvantages of using them</p>	<p>(X) Science Ch 14, <i>Sources of Energy</i> Pg. 253 Environmental consequences of over utilisation of energy Ch 15, <i>Our Environment</i> Pg: 263 Activity 15.10-Generation of electronic waste and plastic and means to reduce it</p>
<p>8.4.2 Factors affecting environment, overexploitation of resources, population growth industrialization, use of synthetic materials.</p>	<p>(XII) Chemistry Pg: 308-309, Polyhaloalkanes freons, DDT, Pg: 425-437, Polymers – natural and synthetic</p>
<p>8.4.3 Pollution of soil, air and water - sources, impact on physical environment and all forms of life, control and preventive measures (modern and traditional):</p>	<p>(VI) Science Ch 14, <i>Water</i> Pg: 136-146 Pg: 136 Activity-Measurement of Daily Consumption of Water in the House Pg: 141 Ground Water Depletion Ch 15, <i>Air Around Us</i> Pg: 147-154 Pg: 151 Air Pollution fig. - Traffic Police at Post wearing a mask Pg: 149 Dust and Smoke</p> <p>(VII) Science Ch 16, <i>Water</i> Pg: 195-205 Pg: 195 Current availability of fresh Water Pg: 194 Activity-Scrap Book on News Paper cutting on water scarcity and depletion Pg: 198 Depletion of Water Table Pg: 199 Activity-Industry as the main culprit in depletion of water table Ch 9, <i>Soils</i> Pg: 96-107 Pg: 97 Box-Soil Pollution due to Pesticide and Plastics Pg: 104 Box-Soil Erosion due to deforestation</p> <p>(X) Science Ch 14, <i>Sources of Energy</i> Pg. 253 Environmental consequences of over utilisation of energy Ch 16, <i>Management of Natural Resources</i></p>

	<p>Pg: 267 Box-Pollution of the Ganga</p> <p>(XII) Biology Ch 16, <i>Environmental Issues</i> Pg: 270-277 Air Pollution, Water pollution and its Control</p> <p>(XI) Chemistry Ch 9, <i>Hydrogen</i> Pg: 276-291 Pg: 281 Box-Estimated World Water Supply Pg: 287 Table-Energy released by combustion of Various fuels Ch 10, <i>The S Block Elements</i> Pg: 291-306 Metal as Air Pollutants, Cement and Air Pollutants, Air Pollutants and effect on health and well being of Human Beings Ch 11, <i>The P Block Elements</i> Pg: 316 Water Pollutants Pg: 322 Air Pollutants</p>
<p>8.4.4 Noise pollution sources, impact and preventive measures.</p>	
<p>8.4.5 Disasters - natural and man-made, major types and their causes, impact on environment and human life.</p>	<p>(IX) Science Ch 13, <i>Why do we fall ill</i> Pg: 176 Activity 13.1-Disaster and its Effects on Human Life</p> <p>(XI) Geography (Physical Environment) Ch 7, <i>Natural Hazards and Disasters</i>, Pg: 76-92</p> <p>(XI) Sociology Ch 2, <i>Social Change and Social Order in Rural and Urban Society</i> Pg: 26 Effect of human activity on Environment and effect of environment change on societies Ch 3, <i>Environment and Society</i> Pg: 50-64</p> <p>(XI) Psychology Ch 9, <i>Motivation and Emotion</i> Pg: 183 Box-Post Traumatic stress Disorder</p> <p>(IX) English (Supplementary) Ch 6, <i>Weathering the Storm in Ersame</i> Pg: 37-42 A Story about storm & its Effects</p> <p>(IX) Hindi (Kritika –1) <i>Is Jal Pralay Me</i> Pg: 1-12</p>

	<p>(XII) Hindi (Antra-2) (Kavya Khand) Ch 1, <i>Karneliya ka Geet</i> Pg: 5-6 Ch 6, <i>Basant Aaya, Toodo</i> Pg: 35-40 Ch 8, <i>Bharhamasa</i> Pg: 48-54 (Gadh Khand) Ch 7, <i>Jaha Koi Vapsi Nahi</i> Pg: 133-140 Ch 10, <i>Kuttaj</i> Pg: 160-169</p> <p>(X) Sanskrit <i>Bhookamp Vibhishka</i> Pg: 56-63</p>
<p>8.4.6 Impact of environmental degradation on - natural habitats, living forms (endangered and extinct species) and domestic animals.</p>	
<p>8.4.7 Impact of environmental pollution on human health - indoor and outdoor pollution, pollution related diseases (respiratory, dietary, physiological, genetic, psychological), occupational hazards and disorders (local examples).</p>	<p>(IX) Science Ch 13, <i>Why do we fall ill</i> Pg: 176-183 Personal and Community Health, Cause of Diseases, Infectious Diseases and Means of Spread</p> <p>(XII) Biology Ch 8, <i>Human Health and Issues</i> Pg: 154-156 HIV/AIDS Pg: 156-158 Cancer</p> <p>(VI) Political Science Ch 7, <i>Urban Administration</i> Pg: 62 Impact of Environment Pollution – Surat Plague Box</p> <p>(VII) Political Science Ch1, <i>On Equality</i>, Pg: 5(story)-Impact of environmental pollution on slum children Ch 2, <i>Role of the Government in Health</i>, Pg: 19-29 Pg: 19-20,27 Environmental Pollution and Health Issues Ch 3, <i>How the State Government Works</i> Pg: 30-31(story)-Governmental Responsibility for Environment Pg: 40 Activity</p> <p>(XII) Political Science Ch 7, <i>Security in the Contemporary World</i> Pg: 111 Impact of Environmental Pollution on</p>

<p>8.4.8 Role of individuals, community and government in planning, decision-making, legislation and social action for prevention of pollution and improvement of environment.</p>	<p>Human Health (HIV/AIDS)</p> <p>(IX) Science Ch 13, <i>Why do we fall ill</i> Pg: 177 Activity-13.2 & 13.3</p> <p>(X) Science Ch. 15, <i>Our Environment</i> Pg: 262 Activity 15.7- How Government deals with Waste</p> <p>(XII) Sociology Ch 6, <i>The Challenges of Cultural Diversity</i> Pg: 137-139 State and Civil Society</p> <p>(VI) Political Science Ch 3, <i>What is Government</i> Pg: 27 Box-Role of Government in prevention of flood Pg: 28 Role of Government in tackling natural resources Ch 4, <i>Key Elements of a Democratic Government</i> Pg: 37 Box-Role of Government Pg: 39 Cauvery Water Dispute Ch 5, <i>Panchayati Raj</i> Pg: 44 Gram Sabha Discussion on Water Problem Pg: 46 Box-Role of Government Pg: 48 Activity-Watershed Development</p> <p>(VII) Political Science Ch 3, <i>How the State Government Works</i> Pg: 30-31 Legislative Discussion on Ground Water Pg: 34-35&38 Depletion and Health Hazards Pg: 36 Activity Pg: 37 Box-Government and Waste Management Ch 10, <i>Struggles for Equality</i> Pg: 117-119 Individual Initiative in Environment Conservation – Tawa Matsya Sangh</p> <p>(IX) Political Science Ch 1, <i>Democracy in the Contemporary World</i> Pg: 15 Environmental Degradation - Who makes Laws? Pg: 33 Govt Response to Famine Pg: 38 Activity – Drinking Water Scarcity</p>
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<p>9.1.2 Interaction between biotic and abiotic factors in an eco-system</p>	<p>(IX) Science Ch 14, <i>Natural Resources</i> Pg: 197-198 Biogeochemical Cycles- Water</p>

	Cycle, Nitrogen Cycle, Carbon Cycle
9.1.3 Energy flow and its importance, cycles of nutrients in terrestrial and aquatic (fresh water and marine) ecosystems, nature's mechanism in maintaining balance	<p>(IX) Science Ch 14, <i>Natural Resources</i> Pg: 197-199 Biogeochemical Cycle</p>
9.1.4 Destruction of ecosystem due to changing patterns of land use; factors responsible for this – population growth, migration, industrialization and urbanization, dwelling units, transport; encroachment on water bodies, forests and agricultural land, shifting cultivation; facilities for tourism, pilgrimage, recreation and adventure; construction of large dams, mining and war	<p>(IX) Science Ch 14, <i>Natural Resources</i> Pg: 194 Water pollution Pg: 199 Green House Effect Pg: 200 Ozone Layer</p> <p>(X) Science Ch 16, <i>Management of Natural Resources</i> Pg: 270-271 People Dependent on Forest Produce – Industrial Pg: 270 Activity- 16.5 Pg: 274 Dams</p> <p>(XI) Sociology Ch 3, <i>Environment and Society</i>, Pg 54-64 Pg: 54 Box: Bhopal industrial disaster: Who is to blame</p> <p>(XII) Sociology Ch 5, <i>Pattern of Social Inequality and Exclusion</i> Pg 100 Box 5.5 In the name of development- Adivasis in the line of fire: (Kalinganagar Plachimada, Narinuda, etc.) Pg 97,98,99 Adivasi Struggles shifting cultivation, Commercial forestry etc.</p> <p>(XII) Political Science Ch 7, <i>Security in the Contemporary World</i> Pg: 114 Impact of Destruction due to changing patterns of land use due to population growth, industrialization, encroachment on water bodies forest and agricultural land etc. (Let's Do It Together)</p> <p>(VI) History Ch 5, <i>What Books and Burials Tell Us</i> Pg: 40, Destruction of cities related to deforestation and drying up of rivers</p> <p>(IX) History Ch 4, <i>Forest Society and Colonialism</i> Pg: 77-96 Ecological history of India. Effect of industrial</p>

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<p>9.1.5 Impact of ecosystem destruction - loss of habitat, stress on resources</p>	<p>(IX) Science Ch 14, <i>Natural Resources</i> Pg: 194 Water Pollution Pg: 199 Green House Effect Pg: 200 Ozone Layer Depletion</p> <p>(XII) Political Science Ch 7, <i>Security in the Contemporary World</i> Pg: 114 Impact of Destruction – Loss of Habitat, Stress on Resources (Let’s Do It Together)</p>
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11.4.3 Rising demand for energy, gap between demand and supply (Indian context)	
11.4.4 Conventional energy sources - fossil fuels and firewood, potential (Indian context) and limitations of each source, methods of harnessing and environmental consequences of their use	(X) Science Ch 14, <i>Sources of Energy</i> Pg.244 Conventional sources of Energy – Fossil Fuels Pg. 248 Box-Conventional Sources of Energy (XI) Physics Ch 6, <i>Work Energy and Power</i> Pg: 126-128 Various Forms of Energy Pg: 128 Principle of Conservation of Energy Pg: 128-129 Power Pg: 116 Notions of Work and Kinetic Energy: The Work – Energy Theorem Pg: 116-123 Work, Kinetic Energy, Potential Energy, Conservation of Mechanical Energy Pg: 140 Power Consumption in Walking Ch 8, <i>Gravitation</i> Pg: 191-194 Gravitational Potential Energy and Escape Speed Pg: 194-196 Earth Satellites and Energy of an Orbiting Satellite Pg: 196-198 Geostationary and polar satellites, Weightlessness Ch 14, <i>Oscillation</i> Pg: 353-355 Forced Oscillations and Resonance Ch 11, <i>Thermal Properties of Matter</i> Pg: 286-290 Heat Transfer: Conduction Convection and Radiation Pg: 290-292 Newton’s Law of Cooling (XI) Economics: Ch 8, <i>Infrastructure</i> , Pg: 144-148

	<p>Sources of energy, Non Conventional sources of energy consumption, pattern of commercial energy power sector Pg: 147 Box 8.1- Making difference Power saving experiment of Thane Municipal Corporation Pg: 148 Box 8.2-Power Distribution: The case of Delhi Pg: 148 Box 8.3-Case of Compact Fluorescent Lamps Ch 9, <i>Environment and Sustainable Development</i> Pg: 172-175 Use of non conventional sources of energy CNG, LPG wind power etc</p>
<p>11.4.5 Non-conventional energy sources - types of non-conventional sources (bio-mass, solar, wind, ocean, hydel, geothermal, nuclear), potential (Indian context) and limitations of each source, methods of harnessing and their environmental consequences, need to promote non-conventional energy sources</p>	<p>(X) Science Ch 14, <i>Sources of Energy</i> Pg.245 Thermal Power Plant, Hydro Power Plant Pg.248 Alternative Sources of Energy Pg. 251 Thermal, Geo thermal and Nuclear Energy Pg.252 Activity 14.7</p> <p>(XI) Economics: Ch 8, <i>Infrastructure</i>, Pg: 144-148 Sources of energy, Non Conventional sources of energy consumption, pattern of commercial energy power sector Pg: 147 Box 8.1-Making difference Power saving experiment of Thane Municipal Corporation Pg: 148 Box 8.2-Power Distribution: The case of Delhi Pg: 148 Box 8.3-Case of Compact Fluorescent Lamps Ch 9, <i>Environment Sustainable Development</i> Pg: 172-175 Use of non conventional sources of energy CNG, LPG wind power etc</p>
<p>11.4.6 Conservation of energy sources - efficiency in production, transportation and utilization of energy · Planning and management of energy; future sources of energy _ hydrogen, alcohol, fuel cells Enhancing efficiency of the devices and optimising energy utilisation</p>	<p>(XI) Chemistry Ch 13, <i>Hydro Carbons</i> Pg: 365-397 Pg: 365 On LPG Ch 14, <i>Environmental Chemistry</i> Pg: 398-413 Pg: 410-413 Strategies to Control Pollution Pg: 411 Green Chemistry Pg: 411 Box – Noble goes to Green Chemistry</p>

	<p>(XII) Physics Ch 6, <i>Electromagnetic Induction</i> Pg: 218-219 Eddy Currents and Electromagnetic Dumping Pg: 224-226 AC Generator Pg: 227 Migration of Birds Ch 7, <i>Alternating Current</i> Pg: 248-251 Resonance, Sharpness of Resonance, Tuning of Electrical Circuits Pg: 252-255 Power Factors and Wattles Current Pg: 259-260 Transformers Pg: 281 Microwave Oven</p> <p>(XI) Economics Ch 8, <i>Infrastructure</i>, Pg: 144-148 Sources of energy, Non Conventional sources of energy, consumption, pattern of commercial energy power sector Pg: 147 Box 8.1-Making difference Power saving experiment of Thane Municipal Corporation Pg: 148 Box 8.2-Power Distribution: The case of Delhi Pg: 148 Box 8.3-Case of Compact Fluorescent Lamps Ch 9, <i>Environment sustainable development</i>, Pg: 172-175 Use of non conventional sources of energy CNG, LPG wind power etc</p>
<p>11.4.7 Planning and management of energy; future sources of energy _ hydrogen, alcohol, fuel cells</p>	<p>(XI) Chemistry (II) Ch 9, <i>Hydrogen</i> Pg: 286-287 Hydrogen Economy</p>
<p>11.4.8 Enhancing efficiency of the devices and optimising energy utilization</p>	<p>(XI) Physics Ch 12, <i>Thermodynamics</i> Pg: 305-307 Thermodynamic Processes Pg: 308-309 Heat Engines, Refrigerators and Heat Pumps Pg: 309-313 Second Law of Thermodynamics Reversible and Irreversible Processes; Car Engine</p> <p>(XII) Physics Ch 2, <i>Electrostatic Potential and Capacitance</i> Pg: 69-70 Electrostatic Shielding Pg: 83-84 Van De Graff Generator Atmospheric Electricity Pg: 92 Electric Shock Thunderstorms and Lightning</p>

	<p>Ch 4, <i>Moving Charges and Magnetism</i> Pg: 139 Helical Motion of Charged Particles and Aurora Boriolis Pg: 140 Cyclotrons; Accelerators in India Pg: 153 Magnetic Confinement Ch 5, <i>Magnetism and Matter</i> Pg: 185-189 The Earth's Magnetism Pg: 197 Mapping India's Magnetic Field</p>
<p>Class XII</p>	
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12.1.2 Types of biodiversity - species, eco and genetic	(XII) Biology Ch 15, <i>Biodiversity and Conservation</i> Pg: 259-262 (XII) English (Supplementary) Ch 3, <i>Journey to the End of the Earth</i> Pg: 18-22 About Antarctica, How its simple ecosystem & lack of biodiversity makes it a perfect place to study environmental changes.
12.1.3 Balance in nature	(XII) Biology Ch 15, <i>Biodiversity and Conservation</i> Pg: 262-263 The Importance of Species Diversity to the Ecosystem
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12.1.9 Economic potential of biodiversity	(XII) Biology Ch 15, <i>Biodiversity and Conservation</i> Pg: 265-266 Why Should we Conserve

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12.1.10 Loss of biodiversity - threatened, endangered and extinct species	(XII) Biology Ch 15, <i>Biodiversity and Conservation</i> Pg: 263-266 Loss of Biodiversity
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12.2.1 Need for environmental management vis-à-vis development	(XI) Economics Ch 6, <i>Rural Development</i> Pg: 110-114 Sustainable Development and organic farming Ch 9, <i>Environment and Sustainable Development</i> Pg: 171-176 Sustainable Development Strategies (XII) Hindi (Antraal-2) Ch 2, <i>Arohan</i> Pg: 12-32 Ch 3, <i>Nagatalai Ki Gaon</i> Pg: 33-41 Ch 4, <i>Apna Malva-khau Ujjadu Sabhyatha Mein</i> Pg: 43-48
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12.2.3 Legal provisions for environmental management	
12.2.4 Approaches for environmental management - economic policies, environmental indicators, setting of standards, information exchange and surveillance	(X) Economics Ch 1, <i>Development</i> Pg: 14-16 Sustainability of Development (XII) Political Science Ch 8, <i>Environment and Natural Resources</i> Pg: 118-120,126-128 Environmental Movements and Evolution of Global Environmental Norms
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