

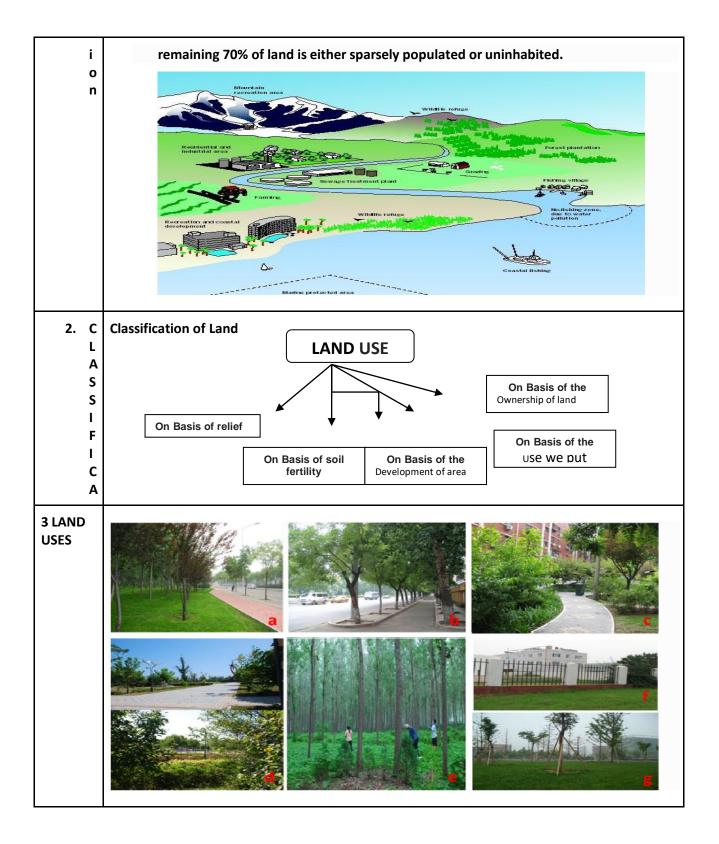
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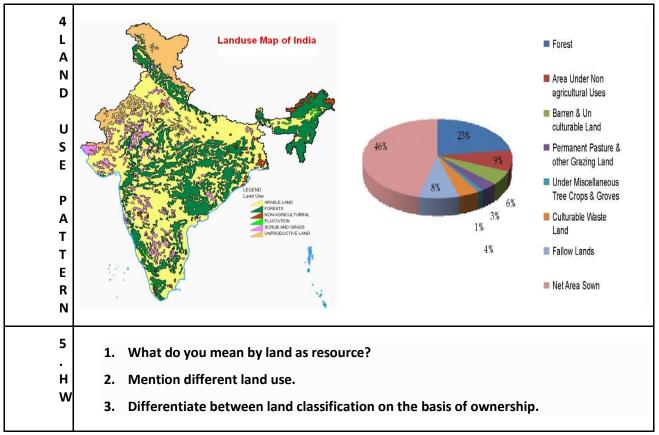
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ODM Teachers' Note

Class	VIII	Subject	Geography		
Prd	1	Chapter	2.Land, Soil and Water Resources		
Sub-Concepts		Land a resource (concept) Classification of land resource Concept of plains, Plateaus & Mountains and their importance Fertile lands and Barren lands			
Teaching Aid To be used		PPT with relevant video and images			
Learning Outcome		distr • To b	be able to know the meaning of resources, their variety, location and tribution. be able to understand the significance of resources & types of land resources, ir distribution and utility.		
INTRODUCTIO N		following qu 1. Name imp 2. Think of a on Earth will 3. Why do w with minima *LAND SOIL * Answer wi * Ensure ma	Achievers: - cher will start the class by asking owing questions: - lame important natural resources. hink of a resource without which life Earth will become impossible. Discuss. Why do we need to utilize resources or minimal waste? ND SOIL AND WATER Inswer will vary student to student insure maximum benefits as they are sted in supply. For Average: - Teacher will start the class by showing few pictures like: - And ask students which one of these resource, they considered to be most important and why?		
SI. No		d!!	Step Wise (Wha	·	
		ortant resour	-	g to abiotic resources and are the most	
		 Land is among the most important natural resources. Land covers about 30% of the total area of the earth's surface. 			

Ninety percent of the world population occupies only 30% of the land area. The





NOTE: As land resource, land use and land use pattern is a continuous topic so this TN should be referred for multiple session as required.



Class	VIII	Subject	Geography
Prd	2	Chapter	2.Land, Soil and Water Resources
Sub-Coi	ncepts	Land degradation Factors affecting land degradation Conservation of land resources	
	ing Aid used	PPT and re	levant videos as well as images
LEARNING OUTCOME		lan	be able to know the meaning of land degradation and methods to conserve ad degradation. be able to understand the significance of land conservation.

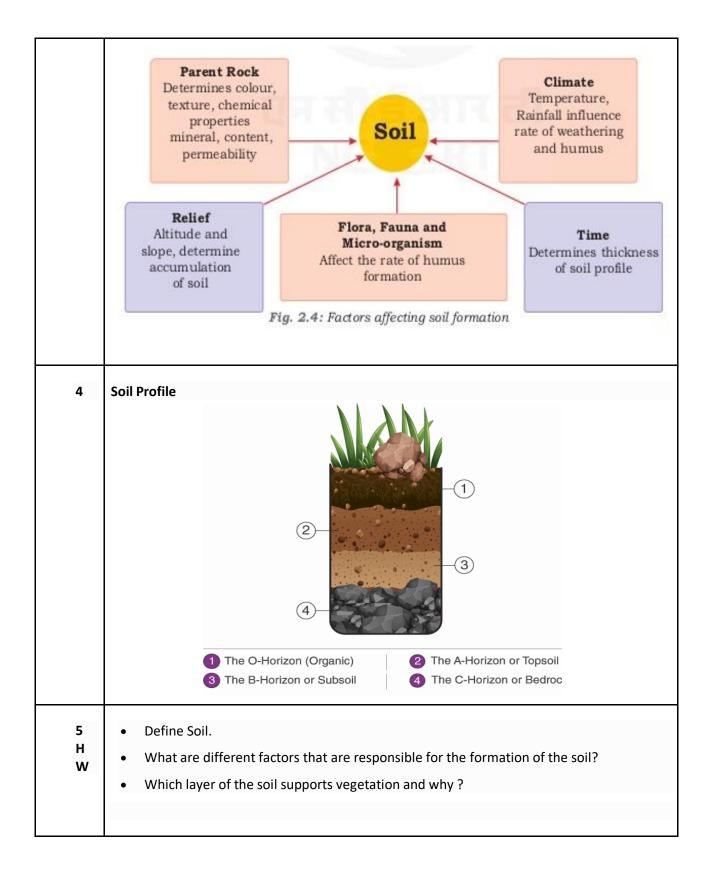
Sl. No	Step Wise (What to be done)
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Teacher will ask following questions to recall the previous learning of the students: -**RECAPIT** 1. What do we include in land resource? **ULATION** 2. How land resource is classified on the basis of development and ownership? 3. Which land use has maximum distribution in our country? 4. Explain net sown area. 2 Land degradation 3 Causes of Land Degradation: -Deforestation Shifting Agriculture Overgrazing Land Degradation Overuse of Over irrigation 4 Land degradation can be checked in the following ways: ✓ Afforestation, i.e. by planting trees. Control and proper management over grazing. Control on mining activities. To plan for proper discharge of industrial effluents. Proper management of waste lands. Stabilization of dunes by growing thorny bushes. **5 HOME** 1. What do you mean by land degradation? **ASSIGN** 2. What are the causes of land degradation? MENT



Class	VIII	Subject	Geography		
Prd	3	Chapter	2.Land, Soil and Water Resources		
Sub-Co	ncepts	Soil as a resource, Soil profile Fertile and Infertile soils			
Teach	ing Aid	PPT and re	PPT and relevant videos as well as images		
To be	used				
Learning outcome		an • To • To	be able to know the meaning of soil resources, their variety, location d distribution. be able to understand the significance of soil as resources. be a sensible citizen respecting natural resources and utilizing them operly.		

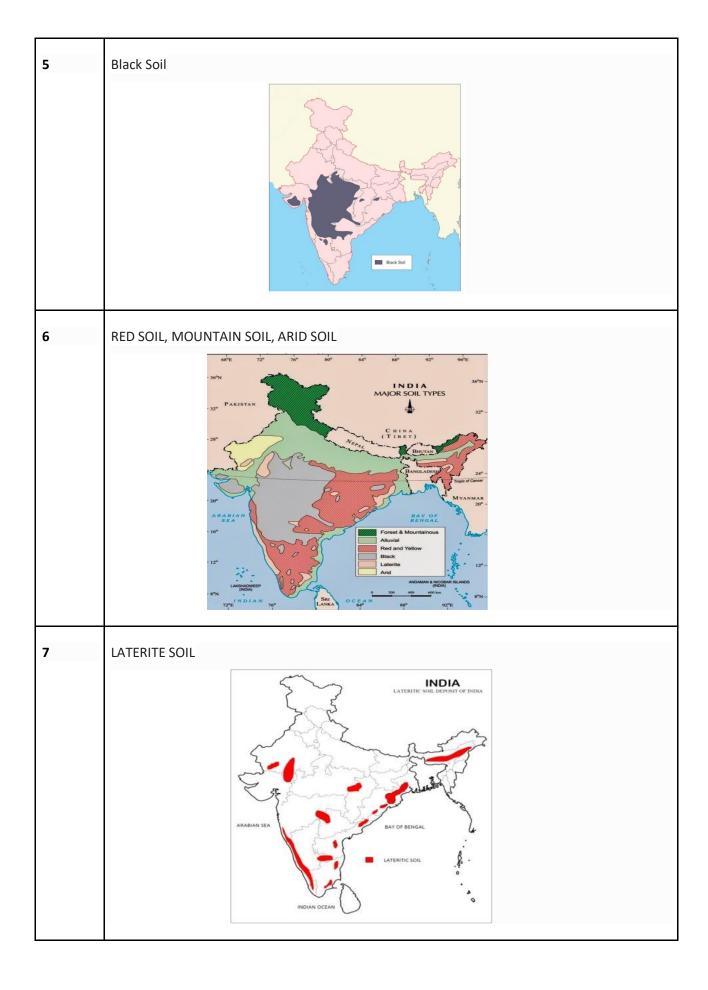
Sl. No	Step Wise (What to be done)		
1 RECAPIT ULATION	Teacher will ask following questions to recall the previous learning of the students: - 1.What is land degradation? 2. Mention some of the causes of land degradation. 3. How land degradation can be controlled?		
2	 Soil is the thin layer of grainy substance covering the surface of the earth. Different types of soils are suitable for particular type of crops. https://www.youtube.com/watch?v=8kZXulLobA8 SOIL		
3	Factors of Soil Formation:		





Class	VIII	Subject	Geography
Prd	4	Chapter	2.Land, Soil and Water Resources
Sub-Concepts			a (ICAR Classification) Is (features, distribution, crops grown, importance)
Teaching Aid To be used		PPT and re	levant videos as well as images

SI. No	Step Wise (What to be done)
1. RECAPIT ULATION	Teacher will ask following questions to recall the previous learning of the students: - 1.What is soil profile? 2. What is soil horizon? 3. Which layer of the soil is most important according to you and why?
2	Soil in India (ICAR Classification): - The Indian Council of Agriculture Research (ICAR) has classified the soil found in India into Eight groups on the basis of Origin, Color, Composition, texture and location.
3	8 categories they are alluvial soils , Black cotton soils , Red soils , Laterite soils , Mountainous or forest soils , Arid or desert soils , Saline and alkaline soils Peaty and marshy soils .
4	Alluvial soils: -



8 TYPES	SOIL	FORMATION	FEATURE	AREAS
OF INDIAN	ALUVIAL SOIL	DEPOSITIONAL ACTION OF RIVERS	MOST FERTILE SUPPORT CULTIVATION	INDO-GANGETIC PLAINS, DELTAIC PLAINS
SOILS	BLACK SOIL (REGUR/COTTON)	SOLIDIFICATION OF LAVA	SWELLS WHEN WET. DEVELOPES CRACKS WHEN DRY GOOD FOR CEREALS, PULSES, OIL SEEDS, CITRUS FRUITS, VEGETABLES	DECCAN PLATEAU
	RED SOIL	DIFFUSION OF METAMORPHIC ROCKS	SANDY, RED IN COLOUR (PRESENCE OF IRON-OXIDES) LESS FERTILE IN UPLANDS	ODISHA, MP, TN, TELANGANA, AP, KERALA
	LATERITE SOIL	INTENSE LEACHING (WATER WASHES OUT SOIL NUTRIENTS)	NEED FERTILISERS FOR CULTIVATION USED FOR BRICK MAKING, JUTE, MILLETS, FODDER CROP	MAHARASTRA, KARNATAKA, KERALA, ODISHA, TN, WB
	ARID/ SANDY SOIL	DRY REGION, LACK MOISTURE	LOW MOISTURE, LACK VEGETATION COVER, IRRIGATION HELPS IN CULTIVATION	WESTERN RAJASTHAN
	PEATY/FOREST SOIL	NATURAL OCCURING FOREST AND REGIONS OF DENSE VEGETATION	RICH IN HUMUS, ORGANIC MATTER,	UTTARANCHAL, J&K, JHARKHAND, BIHAR, N-E StatesWS Go to Settings to activat
9 HOME	1. Mentio	n various soil found in Ind	ia?	
ASSIGN MENT	2. Give th	ree features of alluvial soi	l.	
IVILIVI	3. Write t	he distribution of laterite s	soil in India?	
	4. Which	soil is also known as Regur	Soil? Mention features of th	ne same.

NOTE: As Types of soil is a continuous topic so this TN should be referred for multiple session as per classification of soils.



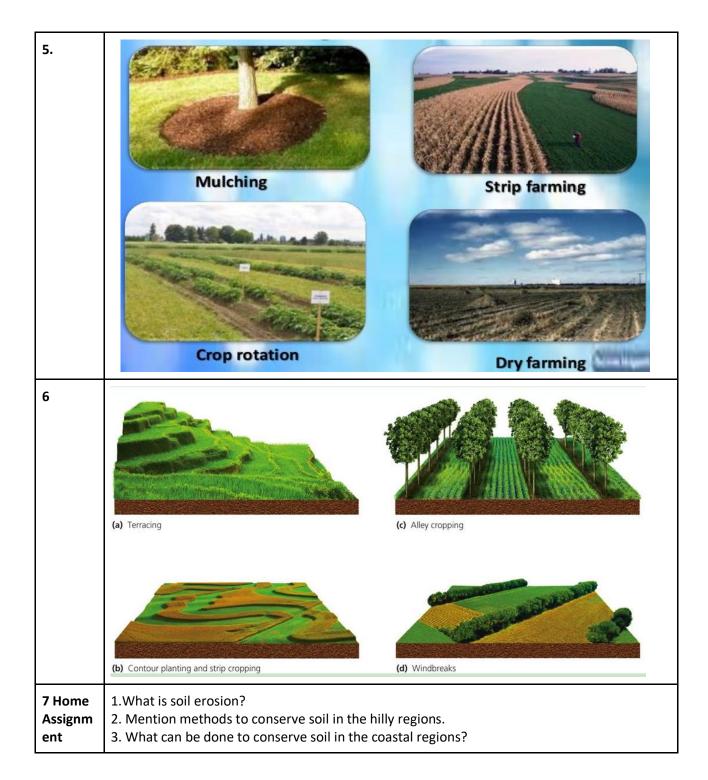
Class	VIII	Subject	Geography
Prd	5	Chapter	2.Land, Soil and Water Resources
Sub-Concepts			n and why soil needs to be conserved conservation methods (afforestation, plugging, contour bunding)
Teaching Aid To be used		PPT and re	levant videos as well as images

Learning Outcome

- To be able to know consequence of soil erosion.

 To be able to understand the significance of methods of soil conservation.

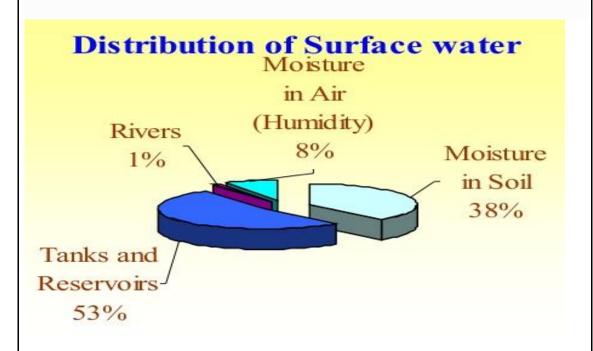
Sl. No	Step Wise (What to be done)
1 Recapitu lation	Teacher will ask following questions to recall the previous learning of the students: - 1.What are the factors that affect formation of soil? 2. Why soil is important for us? 3. Name types of soil found in India. 4. Name the most fertile soil. 5. Which soil is found in your state 'Odisha'?
2	 Soil erosion is the removal of top soil. https://www.youtube.com/watch?v=qNTOq1uEObc SOIL EROSION
3	Soil erosion and why soil needs to be conserved Soil with vegetative cover SUN RAIN More moisture more soil nutrients eschooltoday.com
4	Some soil conservation: https://www.youtube.com/watch?v=uo_ntewAemw Reducing Non-point Source Pollution Afforestation Conservation Tillage Soil Management Practices Organic Inorganic Manuring Controlled Grazing





	Class	VIII	Subject	Geography		
	Prd	6.	Chapter	2.Land, Soil and Water Resources		
Su	Sub-Concepts		Water as a Distribution Water cycle Uses of wa	n of water on earth e		
	Teachin To be ເ	_	PPT and rel	levant videos as well as images		
Le	Learning Outcome		• To	To be able to understand the significance of water resources & types of water resources in India.		
	SI. No			Step Wise (What to be done)		
	CAPITUL	A 1.What is soil e		ion can be prevented in plain regions?		

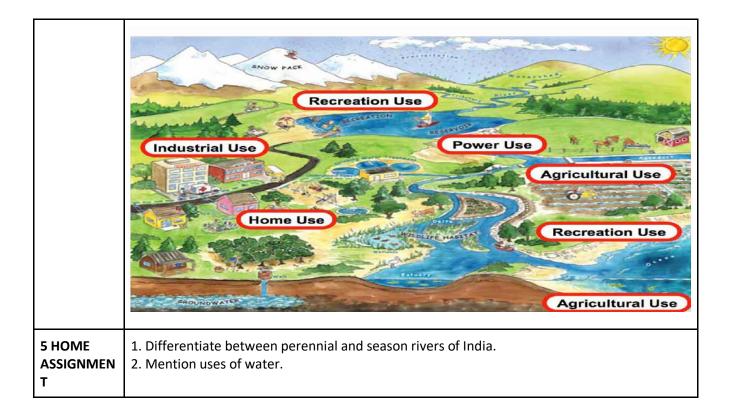
Water as a resource and Distribution of water on earth: -



3 Water cycle: -

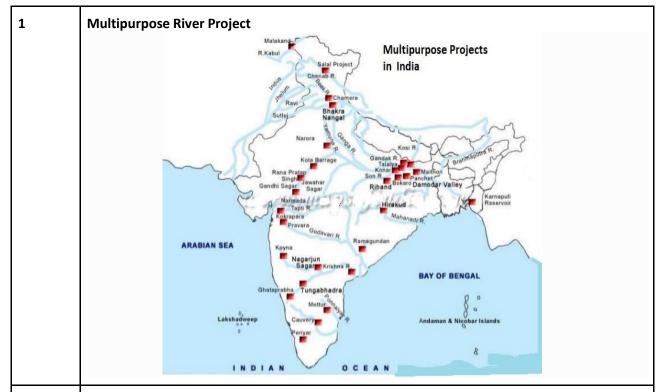


4 Uses of water: -

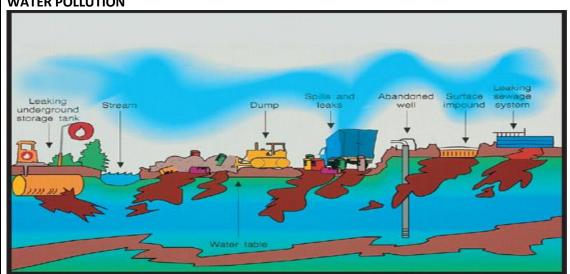


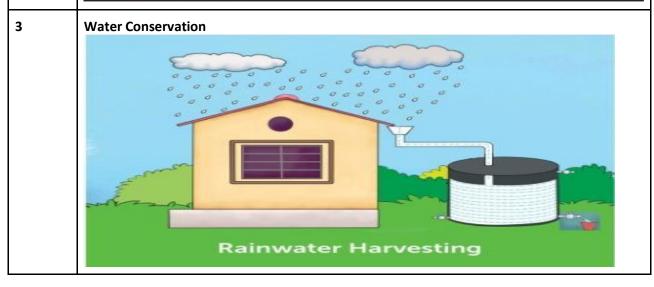


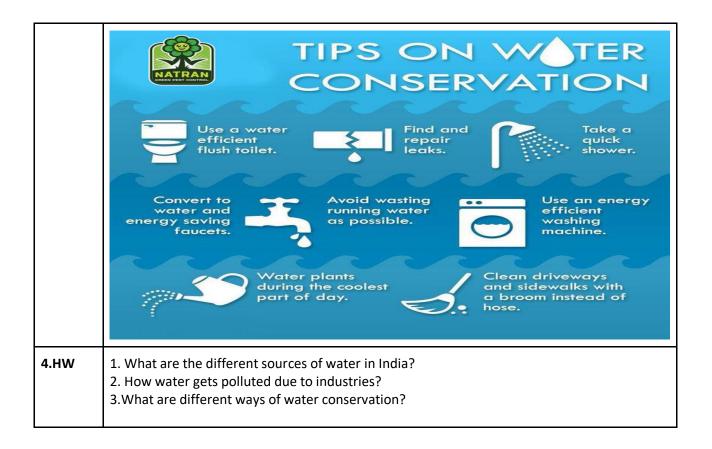
Class	VIII	Subject	Geography	
Prd	7.	Chapter	Chapter 2.Land, Soil and Water Resources	
Sub-Concepts		Rivers of In	ource of India adia (Perennial & Seasonal) ose dam projects and their uses	
Teaching Aid To be used		PPT and re	levant videos as well as images	
LEARNING OUTCOME		• To	be able to understand distribution of water. be able to understand the significance of water resources & types water resources in India. know different ways of water conservation.	
SI. No			Step Wise (What to be done)	
1 RECAPI [*] ULATIO	Г	Teacher will ask following questions to recall the previous learning of the students: - 1. Mention distribution of water on the earth. 2. Briefly explain how water is being balanced on the surface of the earth		



2 WATER POLLUTION

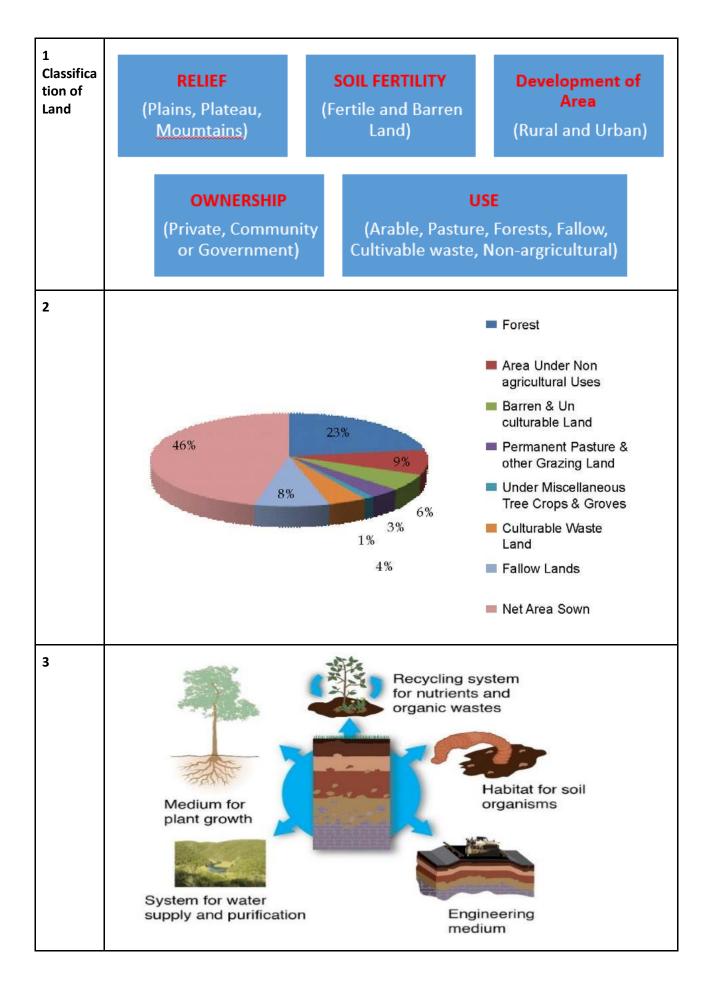


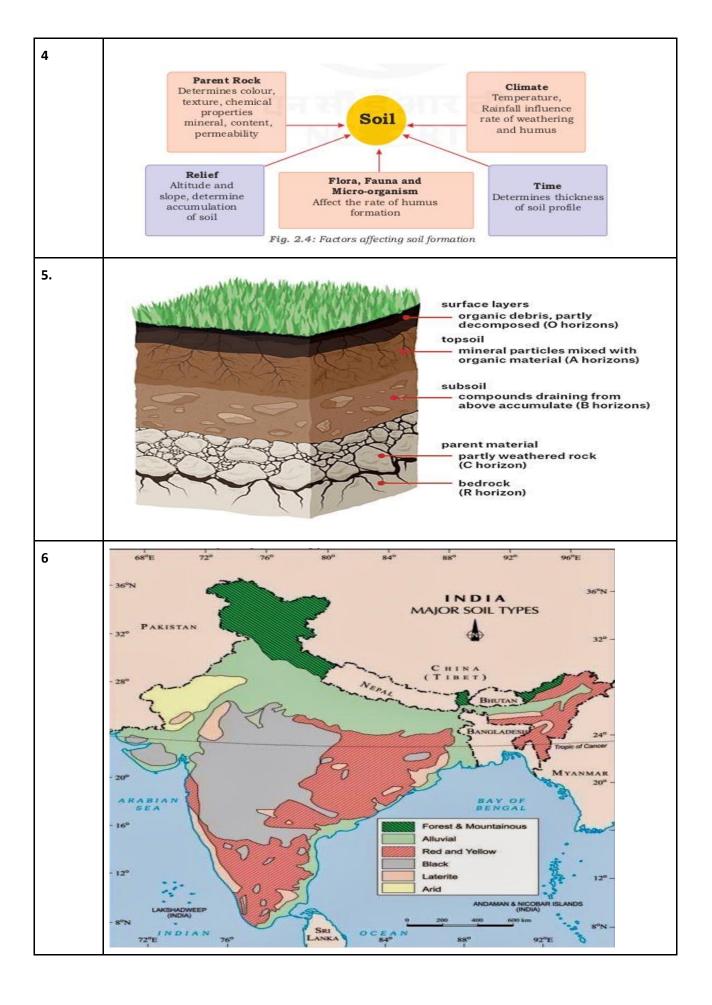


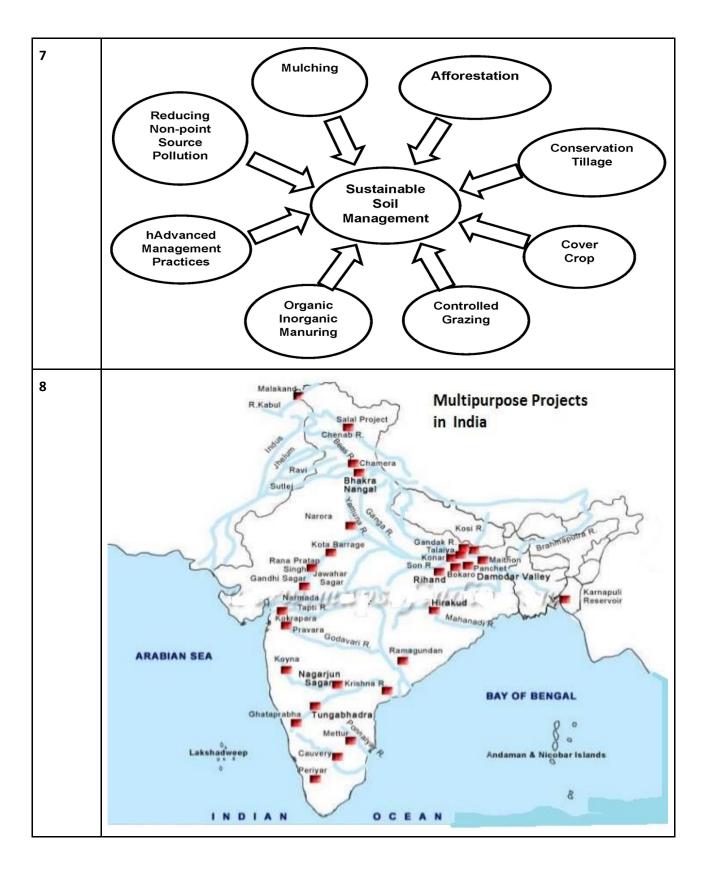


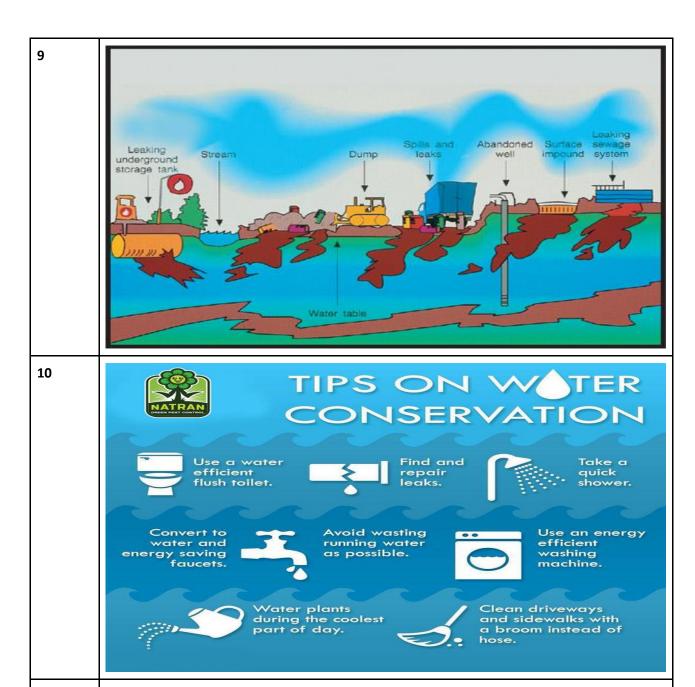


Class	VIII	Subject	Geography
Prd	8.	Chapter	2.Land, Soil and Water Resources
Sub-Concepts		Review of the chapter and Exercise Questions	
Teaching Aid To be used		MAP and mind map.	
LEARNING OUTCOME		 To be able to recall all concepts of the chapter. To be able to understand the significance of resources and reflect their learning analytically. To be able to attempt various questions from the topic. 	
SI. No		Step Wise (What to be done)	









11. HOME ASSIGN MENT Page 20 Question HOTS and VALUE BASED QUESTION