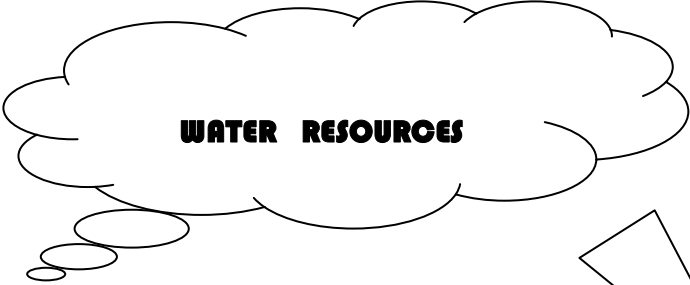


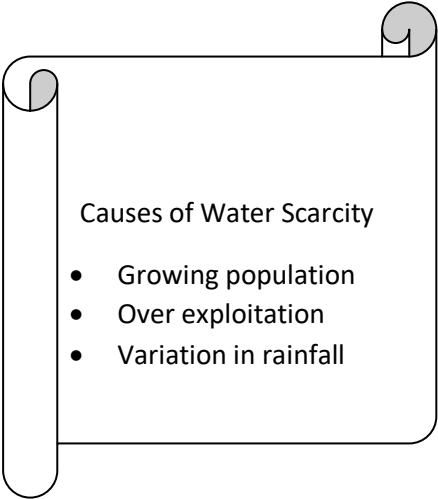
Topic	Water Resources
Pre-Requisite for the lesson	Knowledge of hydrological cycle
Assessment of qualifying knowledge	Questions based on water cycle ,rain, evaporation, precipitation etc
Objectives	To be able to support the cause for water conservation, appraise present water conservation methods used in India and evaluate the role of multi purpose river valley projects.
Learning Outcomes	<u>Knowledge-</u>Students will be able to discuss causes of water scarcity, discuss the similarities and differences between ancient and contemporary hydraulic structures. <u>Skills and Competencies-</u> Students will be able to value the efforts for conserving water They will be able to map the major water sources and dams of India.
Transaction Methodology	The lesson will be introduced by the theme ‘Water water everywhere not a drop to drink’ by showing pictures, newspaper clippings of uses of water and water disasters like floods. Strategies Used- Think pair share Recap of previous knowledge will be done in 5 minutes at the beginning of the lesson. Collaborative learning would be done and discussion method will be followed.
Questions/Assessment	Q1. What will happen if there is no clean water left on earth? Q2. Where is the usable water located? Q3.Is the destruction caused by water more damaging than its utility? Q4. Is there any difference in water supply during different seasons? Q5.Why are there open water tanks in temples? Q6. How many of you have homes built by ancestors? Where is water stored in these houses? Q7. Have you seen step wells ? Why were they built like this? Q8. What do you do when normal supply of water is reduced? Q9. Are you aware about new building laws regarding what provision is to be made for rain water harvesting? Q10. If you have visited a dam can you discuss what all you observed there?Can we conclude

	that dams are multi purpose projects? Q11. What is common between a water tank of an old temple and a dam? Q12. What steps do you take to save water in your homes? Q13. Can a garden at home help in raising the water table? Q14. How do you think that the community can do its bit to ensure that rain water can be harvested? How will you contribute towards this?
Teacher's Activity	1.Students will be asked to share - a)examples of water scarcity,variation in annual and seasonal rainfall - b)unequal access to water among different social groups c) overexploitation and excessive usage of water - d)impact of industrialization and urbanization, increase in population and agriculture e) pollution of water bodies by various agents and ways 2.Students will be divided into groups and asked to discuss : a) the most important use of water for humans b) how is water useful and how it can be destructive 3.Water storage methods in ancient India, and the modern day water storage through multi-purpose dams will be discussedwith students.They will be asked to list the advantages and disadvantages of the dams and also plot them on a map of India. 4. Rain water harvesting will be explained to the students and they will be asked to write its advantages. 5.Students will be divided into groups and asked to enlist the following: a) ways in which water is wasted b) ways to conserve water c) ways in which people can be made aware to conserve water. 6.Brief introduction to inter state water dispute will be given

Student's Activity	1.Students will discuss: a) availability of water in their homes during different seasons and different time of the day b) importance of water for human beings c) when does water pose a threat for life d) discuss advantages of multi purpose dams 2. They will also plot major dams on the map of India. 3. They will discuss the advantages of rainwater harvesting. 4.They will enlist the ways in which water is wasted, ways to conserve water and creating awareness in the community regarding this .
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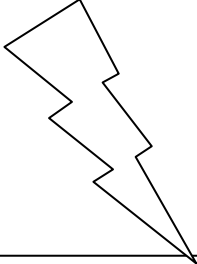


WATER RESOURCES



Causes of Water Scarcity

- Growing population
- Over exploitation
- Variation in rainfall



Multi –Purpose River Projects

Advantages- Irrigation

Electricity Flood control
Navigation Fish breeding
Recreation

Disadvantages-

Fragments rivers
Excessive sedimentation
Aquatic habitat spoilt

Calamities

Inter state water
disputes