Welcome to our lesson on understanding human impact on local water systems through ser lesson, we will explore the water cycle, water pollution, water conservation, and ecosystem h	
Water Cycle (15 minutes) The water cycle is the process by which water moves from the Earth to the air and back to the involves evaporation, condensation, and precipitation.	ne Earth again. It
1. Evaporation: Water from the Earth's surface evaporates into the air. 2. Condensation: Water vapor in the air cools and condenses into clouds. 3. Precipitation: Water falls back to the Earth as rain, snow, or hail.	

Pollutant	Biodegradable/Non-Biodegradable
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ater Conservation (1	5 minutes)
ater conservation involv	es practices and technologies that reduce water usage, protecting this vital stions. Simple actions like fixing leaks, using water-efficient appliances, and
ource for future genera	ting systems can significantly reduce water waste.
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Water pollution occurs when contaminants are introduced into water bodies, affecting their quality and the health of aquatic life. Common pollutants include industrial waste, agricultural runoff, and domestic sewage.

Water Pollution (15 minutes)

Group Task:

Ecosystem Health (15 minutes)
The health of ecosystems is intricately linked with the quality and availability of water. Aquatic ecosystems, in particular, are sensitive to changes in water quality and quantity, with pollutants and altered water cycles affecting biodiversity and ecosystem services.
Group Task: Discuss the importance of water in maintaining healthy ecosystems.
Activities (20 minutes)
 Choose one of the following activities: Water Cycle Simulation: Create a diagram of the water cycle using arrows to show the movement of water. Water Pollution Sorting: Sort pictures or objects into categories of biodegradable and non-biodegradable pollutants. Water Conservation Role-Play: Practice water-saving strategies in daily life, such as turning off taps while brushing teeth.

Answer the following questions: 1. What is the water cycle? 2. Why is water important for our planet? 3. How do humans impact local water systems? 4. What are some ways we can conserve water at home? Extension Tasks (20 minutes) Choose one of the following extension tasks: 1. Design a Water Filtration System: Create a model of a water filtration system using everyday materials. 2. Create a Public Service Announcement: Design a poster or short video about the importance of water conservation. 3. Conduct a Water Audit: Measure and record water usage at home or in the classroom.	Questions (15 minutes)	
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ELL Support (10 minutes)
Use visual aids and simple language when explaining concepts and instructions. Provide bilingual resources and support materials. Offer one-on-one assistance during activities.
Conclusion (10 minutes)
In conclusion, understanding human impact on local water systems is crucial for our planet's health. By participating in hands-on activities and discussions, we can learn about the water cycle, water pollution, water conservation, and ecosystem health.
Individual Reflection:
What was the most surprising thing you learned today?
2. How will this learning change your actions in the future?
3. What questions do you still have about environmental impact?