

**Subject Area:** Science  
**Unit Title:** Exploring Water Sources and Uses in Our Community  
**Grade Level:** 5  
**Lesson Number:** 1 of 10

**Duration:** 45 minutes  
**Date:** March 10, 2024  
**Teacher:** Ms. Johnson  
**Room:** 101

## Curriculum Standards Alignment

### Content Standards:

- Identify and describe different sources of water
- Explain how water is used in their community
- Demonstrate an understanding of the importance of water conservation

### Skills Standards:

- Critical thinking
- Problem-solving
- Communication

### Cross-Curricular Links:

- Science: water cycle, water sources, water purification
- Social Studies: community water usage, water conservation
- Math: measuring water usage, calculating water waste
- Language Arts: reading and writing about water conservation

## Essential Questions & Big Ideas

### Essential Questions:

- What are the different sources of water?
- How is water used in our community?
- Why is water conservation important?

### Enduring Understandings:

- Water is essential for life
- Water conservation is crucial for our community
- Students can make a difference by conserving water

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## Student Context Analysis

### Class Profile:

- Total Students: 25
- ELL Students: 5
- IEP/504 Plans: 3
- Gifted: 2

### Learning Styles Distribution:

- Visual: 40%
- Auditory: 30%
- Kinesthetic: 30%



## Pre-Lesson Preparation

### Room Setup:

- Arrange desks in groups of 4-5
- Set up water filtration station
- Prepare visual aids and materials

### Technology Needs:

- Interactive whiteboard
- Water cycle simulation software
- Tablets for students

### Materials Preparation:

- Water filtration kit
- Pictures and videos of different water sources
- Diagrams of the water cycle

### Safety Considerations:

- Use clean and safe materials for experiments
- Supervise students during activities
- Provide adaptive equipment for students with special needs

## Detailed Lesson Flow

### Introduction and Engagement (5 minutes)

- Show pictures of different water sources
- Ask students if they have ever wondered where the water they use comes from
- Introduce the concept of water sources and uses in their community

### Exploring Water Sources (10 minutes)

- Show pictures or videos of different water sources
- Ask students to identify and describe each source
- Provide simple definitions and explanations using visual aids

### Water Uses in the Community (10 minutes)

- Discuss how water is used in their community
- Use role-playing activities to demonstrate these uses
- Ask students to share examples of how they use water in their daily lives

### Engagement Strategies:

- Think-pair-share
- Group discussion
- Role-playing

### Hands-on Activity - Water Filtration (15 minutes)

- Demonstrate a simple water filtration experiment

- Have students participate in the experiment and record their findings
- Discuss the importance of clean water and water purification

#### **Checking for Understanding:**

- Observation
- Questioning techniques
- Group work evaluation

#### **Conclusion and Reflection (5 minutes)**

- Summarize the key points learned during the lesson
- Ask students to reflect on what they learned and how they can contribute to water conservation in their daily lives

## Differentiation & Support Strategies

### For Struggling Learners:

- Provide extra support during hands-on activities
- Use visual aids and simplified language
- Offer one-on-one assistance

### For Advanced Learners:

- Assign extension tasks such as designing a poster about water conservation
- Provide additional challenges and complexities
- Encourage independent research and presentation

### ELL Support Strategies:

- Provide vocabulary cards with definitions
- Offer one-on-one assistance during activities
- Use visual aids and simplified language

### Social-Emotional Learning Integration:

- Encourage teamwork and collaboration
- Promote self-awareness and self-regulation
- Foster empathy and understanding

## Assessment & Feedback Plan

### Formative Assessment Strategies:

- Observation during activities
- Questioning techniques
- Group work evaluation

### Success Criteria:

- Students can identify and describe different sources of water
- Students can explain how water is used in their community
- Students can demonstrate an understanding of the importance of water conservation

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### Feedback Methods:

- Verbal feedback
- Written feedback
- Peer feedback

## Homework & Extension Activities

### Homework Assignment:

Ask students to create a poster about water conservation and present it to the class

**Extension Activities:**

- Design a water filtration system
- Conduct a water audit
- Create a public service announcement about water conservation

**Parent/Guardian Connection:**

Encourage parents/guardians to participate in water conservation efforts at home and provide feedback to the teacher

## Introduction and Engagement

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### Introduction (5 minutes):

- Show pictures of different water sources
- Ask students if they have ever wondered where the water they use comes from
- Introduce the concept of water sources and uses in their community

### Engagement Strategies:

- Think-pair-share
- Group discussion
- Role-playing

## Exploring Water Sources

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### Exploring Water Sources (10 minutes):

- Show pictures or videos of different water sources
- Ask students to identify and describe each source
- Provide simple definitions and explanations using visual aids

### Support Strategies:

- Provide extra support during hands-on activities
- Use visual aids and simplified language
- Offer one-on-one assistance

## Water Uses in the Community

### Water Uses in the Community (10 minutes):

- Discuss how water is used in their community
- Use role-playing activities to demonstrate these uses
- Ask students to share examples of how they use water in their daily lives

### Support Strategies:

- Provide extra support during hands-on activities
- Use visual aids and simplified language
- Offer one-on-one assistance

## Hands-on Activity - Water Filtration

### Hands-on Activity - Water Filtration (15 minutes):

- Demonstrate a simple water filtration experiment
- Have students participate in the experiment and record their findings
- Discuss the importance of clean water and water purification

### Support Strategies:

- Provide extra support during hands-on activities
- Use visual aids and simplified language
- Offer one-on-one assistance



## Conclusion and Reflection

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### Conclusion (5 minutes):

- Summarize the key points learned during the lesson
- Ask students to reflect on what they learned and how they can contribute to water conservation in their daily lives

### Reflection Strategies:

- Think-pair-share
- Group discussion
- Writing reflection

## Assessment and Evaluation

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### Formative Assessment Strategies:

- Observation during activities
- Questioning techniques
- Group work evaluation

### Summative Assessment:

- Water source diagram
- Water usage sorting game
- Water conservation poster

## Extension and Closing

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### Extension Activities:

- Design a water filtration system
- Conduct a water audit
- Create a public service announcement about water conservation

### Closing Strategies:

- Review the importance of water sources and uses
- Encourage students to continue exploring and learning about water and its importance in their lives

## Teacher Reflection Space

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### Pre-Lesson Reflection:

- What challenges do I anticipate?
- Which students might need extra support?
- What backup plans should I have ready?

### Post-Lesson Reflection:

- What went well?
- What would I change?
- Next steps for instruction?

## Assessment and Evaluation

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### Formative Assessment Strategies:

- Observation during activities
- Questioning techniques
- Group work evaluation

### Summative Assessment:

- Water source diagram
- Water usage sorting game
- Water conservation poster

## Conclusion

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### Conclusion:

This lesson plan provides a comprehensive and engaging learning experience for 5-year-old students, introducing them to the concept of water sources and uses in their community. Through hands-on activities and differentiated instruction, students develop essential skills in science, social studies, and critical thinking, while also learning about the importance of water conservation.

## Extension Tasks for Advanced Learners

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### Extension Tasks:

- Design a poster about water conservation
- Create a short story about saving water
- Conduct a simple water audit at home or in school

### Support Strategies:

- Provide additional challenges and complexities
- Encourage independent research and presentation
- Offer one-on-one assistance

## ELL Support and Resources

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### ELL Support Strategies:

- Provide vocabulary cards with definitions
- Offer one-on-one assistance during activities
- Use visual aids and simplified language

### Resources:

- Visual aids
- Simplified language
- Vocabulary cards

### Conclusion

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**Conclusion:**

This lesson plan provides a comprehensive and engaging learning experience for 5-year-old students, introducing them to the concept of water sources and uses in their community. Through hands-on activities and differentiated instruction, students develop essential skills in science, social studies, and critical thinking, while also learning about the importance of water conservation.