Conserve Water for Food

English Language Arts

1. The genre of this text is:
    a. Fantasy
    b. Information
    c. Opinion
    d. Realistic fiction

2. List five ways people use water every day.
    a. _____
    b. _____
    c. _____
    d. _____
    e. _____

3. Which of the following is <u>not</u> a type of biological contaminant of water?
    a. Bacteria
    b. Parasites
    c. Soap
    d. Virus

4. According to the text, the word irrigation means:
    a. Too little rainfall
    b. Process of watering crops when there is not enough rainfall
    c. A type of contamination
    d. A type of saltwater

5. Which of the following is <u>not</u> freshwater?
    a. Drinking water
    b. Groundwater
    c. Ocean
    d. Stream

6. According to the text, clean water is important for growing food because

_____
_____
_____

7. The water purification step that inactivates microorganisms is called
    a. Disinfection
    b. Filtration
    c. Flocculation
    d. Inoculation

8. According to the text, scientists are studying alternative water sources for irrigation because

_____
_____
_____

9. Which of the following statements is <u>not</u> supported by the text?
    a. Environmental water is cleaned before and after human use.
    b. Crops are irrigated when there is not enough rain.
    c. Increased water demands require new sources of irrigation water.
    d. Community wastewater cannot be reclaimed.

10. Cite an example from the text that illustrates how humans use technology to provide for their needs.

_____
_____
_____

Conserve Water for Food

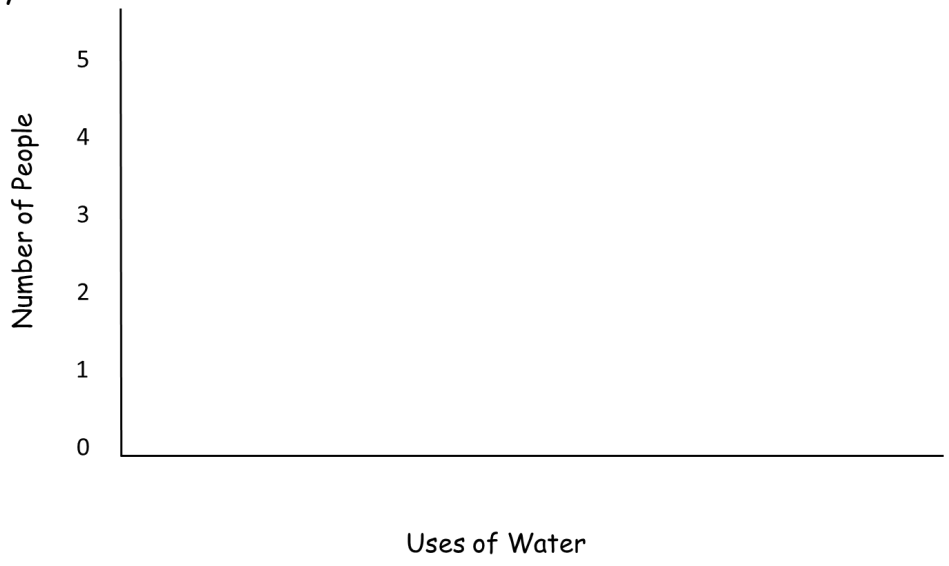
Science

1. List five ways you use water every day.
   a. _____
   b. _____
   c. _____
   d. _____
   e. _____

2. Ask four other people to list five ways they use water every day. Record your data (from Question 1) and the data from your interviews in the table.

Uses of Water	Person 1	Person 2	Person 3	Person 4	Person 5
1					
2					
3					
4					
5					

3. Create a bar graph to illustrate the data in the table on how water is used every day.



4. Which of the following is not a type of biological contaminant of water?
    a. Bacteria
    b. Parasites
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    a. Too little rainfall
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9. According to the text, scientists are studying alternative water sources for irrigation because

_____

_____

_____

10. Which of the following statements is <u>not</u> supported by the text?
    e. Environmental water is cleaned before and after human use.
    f. Crops are irrigated when there is not enough rain.
    g. Increased water demands require new sources of irrigation water.
    h. Community wastewater cannot be reclaimed.

11. Cite an example from the text that illustrates how humans use technology to provide for their needs.

    _____

    _____

12. Two types of irrigation methods are mentioned in the text: overhead spray irrigation and drip irrigation close to the ground. Which of these two methods do you think is likely to lose more water due to evaporation? Explain your answer.

    _____

    _____

    _____

Spray Irrigation

Drip Irrigation

13. Filtration is a process to separate materials based on the size of particles and how well particles interact with the materials inside the filters. A scientist conducts an experiment to compare two different filters for their effectiveness for removing bacteria from water. The following graph illustrates the number of bacteria remaining in the water samples after the water is treated through two filters that contain different materials intended

to trap microorganisms. Which filter is more effective at removing bacteria from the water? Explain your conclusion.

_____

_____

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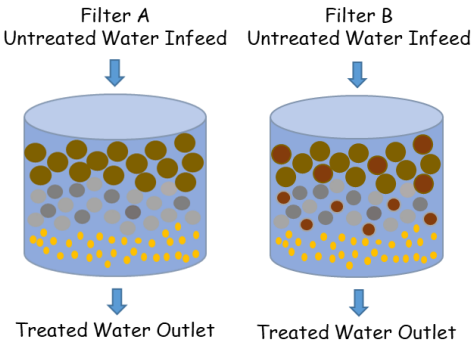

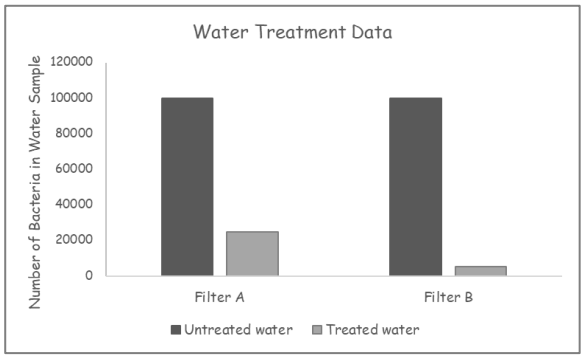

Conserve Water for Food

Mathematics

1. List five ways you use water every day.
   a. _____
   b. _____
   c. _____
   d. _____
   e. _____

2. Ask four other people to list five ways they use water every day. Record your data (from Question 1) and the data from your interviews in the table.

Uses of Water	Person 1	Person 2	Person 3	Person 4	Person 5
1					
2					
3					
4					
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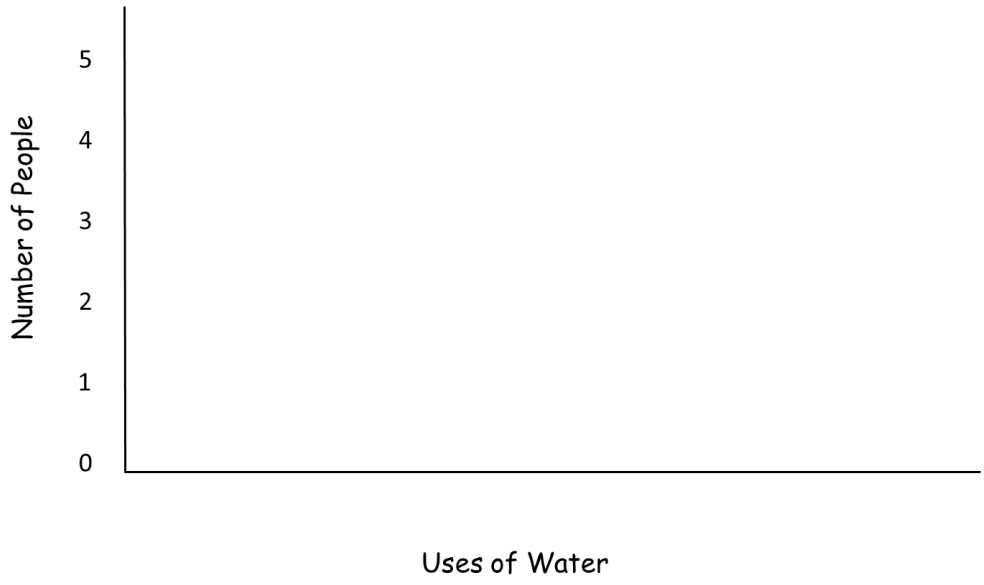
3. Create a bar graph to illustrate the water use data from the table.



4. If 15 gallons of water are needed to grow one ounce of a certain type of food, how much water is needed to grow 20 ounces of this food? Please show your work.

5. If 150 gallons of water are needed to grow enough of a food crop for 10 people, how many gallons of water are needed to grow enough of this food crop for 1000 people? Please show your work.

6. An irrigation water source contains 10,000 bacteria in 1 ml of water. If the maximum number of bacteria allowed for irrigation water for a food crop is 100 bacteria in 1 ml of water, how many bacteria must be removed or inactivated to make the water acceptable for use? Please show your work.

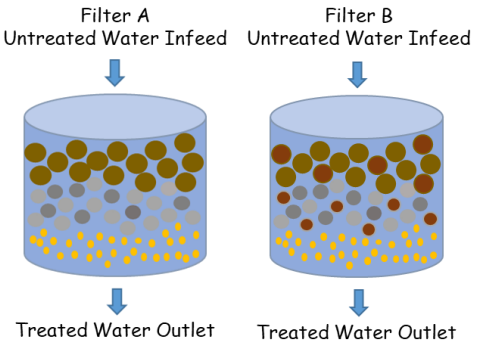
7. Filtration is a process to separate materials based on the size of particles and how well particles interact with the materials inside the filters. A scientist

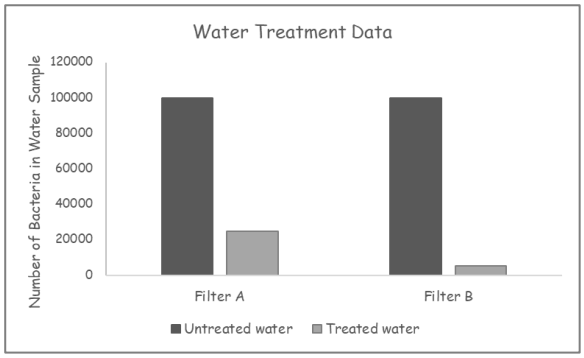
conducts an experiment to compare two different filters for their effectiveness for removing bacteria from water. The following graph illustrates the number of bacteria remaining in the water samples after the water is treated through two filters that contain different materials intended to trap microorganisms. Which filter is more effective at removing bacteria from the water? Explain your conclusion.

_____

_____

_____





8. A cylinder is filled and packed tightly with grains of sand to make a water filter. The bottom of the filter has a screen with tiny holes that allow water to pass through. Sand and large particles will be trapped by the screen. If the diameter of each hole in the screen at the bottom of the filter is 0.01 mm, which of the following particles in the water will be trapped and not flow through with the water? Circle all that apply.

    a. Pebble (diameter 2 mm)
    b. Soil particle (diameter 0.02 mm)
    c. Bacterium (diameter 0.001 mm)
    d. Virus (diameter 0.00003 mm)

9. If a water filtration system can clean 10 gallons of water in one hour, how many gallons of water can the system clean in 24 hours? Please show your work.

10. If one acre of a food crop field requires 5,000 gallons of irrigation water and a water filtration system can clean 500 gallons of the needed water, how many filtration systems are needed to clean enough water one acre? Please show your work.

Conserve Water for Food

Social Studies

1. List five ways people use water every day.
   a. _____
   b. _____
   c. _____
   d. _____
   e. _____

2. If your community had limited supply of water due to a drought, what uses of water would you avoid until the water supply increased? How would you continue to use water during a drought?

3. If you were a community leader and your region had limited supply of water due to drought, what would you do to assure there was enough water to meet basic needs?

4. According to the text, the word irrigation means:
   a. Too little rainfall
   b. Process of watering crops when there is not enough rainfall
   c. A type of contamination
   d. A type of saltwater

5. Which of the following is not freshwater?
    a. Drinking water
    b. Groundwater
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6. According to the text, clean water is important for growing food because

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7. The water purification step that inactivates microorganisms is called
    a. Disinfection
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8. According to the text, scientists are studying alternative water sources for irrigation because

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9. Which of the following statements is not supported by the text?
    a. Environmental water is cleaned before and after human use.
    b. Crops are irrigated when there is not enough rain.
    c. Increased water demands require new sources of irrigation water.
    d. Community wastewater cannot be reclaimed.

10. Cite an example from the text that illustrates how humans use technology to provide for their needs.

    _____

    _____

    _____

Conserve Water for Food

Health Education

1. List five ways you use water every day.
   a. _____
   b. _____
   c. _____
   d. _____
   e. _____

2. Ask four other people to list five ways they use water every day. Record your data (from Question 1) and the data from your interviews in the table.

Uses of Water	Person 1	Person 2	Person 3	Person 4	Person 5
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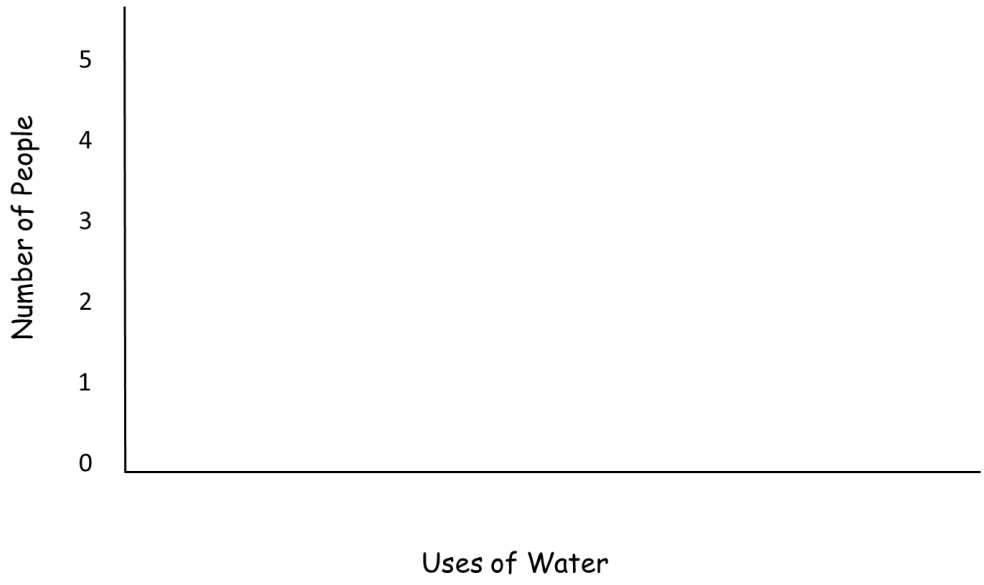
3. Create a bar graph to illustrate the water use data from the table.



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8. According to the text, scientists are studying alternative water sources for irrigation because

   _____

   _____

   _____

9. Which of the following statements is <u>not</u> supported by the text?
    e. Environmental water is cleaned before and after human use.
    f. Crops are irrigated when there is not enough rain.
    g. Increased water demands require new sources of irrigation water.
    h. Community wastewater cannot be reclaimed.

10. Cite an example from the text that illustrates how humans use technology to provide for their needs.

    _____
    _____
    _____

Informational Text Question Bank and Education Content Standards Support

English Language Arts/Literacy (Common Core)

Education Content Standard Supported	Question Bank
Recognition of text type and purpose	11. The genre of this text is: a. Fantasy b. <u>Information</u> c. Opinion d. Realistic fiction
Writing Standards K-5, Research to Build and Present Knowledge, Grade 4 *Recall relevant information from experiences…*	12. List five ways people use water every day.
Reading Standards for Informational Text K-5, Craft and Structure, Grade 4 *Determine the meaning of general academic and domain-specific words or phrases in a text relevant to a grade 4 topic or subject area*	13. Which of the following is not a type of biological contaminant of water? a. Bacteria b. Parasites c. <u>Soap</u> d. Virus
Reading Standards for Informational Text K-5, Craft and Structure, Grade 4	14. According to the text, the word irrigation means: a. Too little rainfall b. <u>Process of watering crops when there is no rainfall</u> c. A type of contamination d. A type of saltwater

Determine the meaning of general academic and domain-specific words or phrases in a text relevant to a grade 4 topic or subject area	
Reading Standards for Informational Text K-5, Craft and Structure, Grade 4 *Determine the meaning of general academic and domain-specific words or phrases in a text relevant to a grade 4 topic or subject area*	15. Which of the following is not freshwater? a. Drinking water b. Groundwater c. Ocean d. Stream
Writing Standards K-5, Research to Build and Present Knowledge, Grade 4 *Draw evidence from literary or informational texts to support analysis, reflection, and research.*	16. According to the text, clean water is important for growing food because contaminated water could transfer biological or chemical contaminants to the edible portion of food and cause illness.
Reading Standards for Informational Text K-5, Craft and Structure, Grade 4 *Determine the meaning of general academic and domain-specific words or phrases in a text relevant to a grade 4 topic or subject area*	17. The water purification step that inactivates microorganisms is called a. Disinfection b. Filtration c. Flocculation d. Inoculation
Writing Standards K-5, Research to Build and Present Knowledge, Grade 4	18. According to the text, scientists are studying alternative water sources for irrigation because water shortages are already an issue with droughts in some regions and contamination of environmental water in others. With the anticipated increase in human population, the need for water will increase.

Draw evidence from literary or informational texts to support analysis, reflection, and research.	
Reading Standards for Informational Text K-5, Key Ideas and Details, Grade 4 *Determine the main idea of a text and explain how it is supported by key details; summarize the text*	19. Which of the following statements is not supported by the text? a. Environmental water is cleaned before and after human use. b. Crops are irrigated when there is not enough rain. c. Increased water demands require new sources of irrigation water. d. <u>Community wastewater cannot be reclaimed.</u>
Writing Standards K-5, Research to Build and Present Knowledge, Grade 4 *Draw evidence from literary or informational texts to support analysis, reflection, and research.*	20. Cite an example from the text that illustrates how humans use technology to provide for their needs. a. <u>Water is treated by a series of steps (flocculation, filtration, disinfection) to remove contaminants both before and after use.</u> b. <u>Crops are irrigated when rainfall is insufficient.</u>

Science Standards (NGSS)

Education Content Standard Supported	Question Bank
4-ESS3-1. Earth and Human Activity, Disciplinary Core Ideas: *Energy and fuels that humans use are derived from natural sources, and their use affects the environment in multiple ways. Some resources are renewable over time, and others are not.*	1. List five ways you use water every day. 2. Ask four other people to list five ways they use water every day. Record your data (from Question 1) and the data from your interviews in the table. 3. Create a bar graph to illustrate the data in the table on how water is used every day. What use of water is most commonly cited among those surveyed?
5-LS2-1. Ecosystems: Interactions, Energy, and Dynamics, Crosscutting Concepts, Systems and System models: *A system can be described in terms of its components and their interactions.*	4. Which of the following is not a type of biological contaminant of water? a. Bacteria b. Parasites c. Soap d. Virus
3-5-ETS1-2. Engineering Design, Crosscutting Concepts, Influence of Engineering, Technology, and Science on Society and the Natural World: *Engineers improve existing technologies or develop new ones to increase their benefits, decrease known risks, and meet societal demands.*	5. According to the text, the word irrigation means: a. Too little rainfall b. Process of watering crops when there is not enough rainfall c. A type of contamination d. A type of saltwater
5-LS2-1. Ecosystems: Interactions, Energy, and Dynamics, Crosscutting Concepts, Systems and System models: *A system can be*	6. Which of the following is not freshwater? a. Drinking water b. Groundwater c. Ocean

described in terms of its components and their interactions.	d. Stream
3-ESS3-1. Earth and Human Activity, Crosscutting Concepts, Connections to Nature of Science: *Science is a human endeavor. Science affects everyday life.* **5-LS2.A. Ecosystems: Interactions, Energy, and Dynamics, Disciplinary Core Ideas: Interdependent relationships in ecosystems:** *The food of almost any kind of animal can be traced back to plants. Organisms can only survive in environments in which their particular needs are met.*	7. According to the text, clean water is important for growing food because <u>contaminated water could transfer biological or chemical contaminants to the edible portion of food and cause illness.</u>
3-5-ETS1-2. Engineering Design, Crosscutting Concepts, Influence of Engineering, Technology, and Science on Society and the Natural World: *Engineers improve existing technologies or develop new ones to increase their benefits, decrease known risks, and meet societal demands.*	8. The water purification step that inactivates microorganisms is called a. <u>Disinfection</u> b. Filtration c. Flocculation d. Inoculation
3-5-ETS1-2. Engineering Design, Crosscutting Concepts, Influence of Engineering, Technology, and Science on Society and the Natural World: *Engineers improve existing technologies or develop new ones to*	9. According to the text, scientists are studying alternative water sources for irrigation because <u>water shortages are already an issue with droughts in some regions and contamination of environmental water in others. With the anticipated increase in human population, the need for water will increase.</u>

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3-ESS3-1. Earth and Human Activity, Crosscutting Concepts, Connections to Nature of Science: *Science is a human endeavor. Science affects everyday life.* **3-5-ETS1-2. Engineering Design, Crosscutting Concepts, Influence of Engineering, Technology, and Science on Society and the Natural World:** *Engineers improve existing technologies or develop new ones to increase their benefits, decrease known risks, and meet societal demands.*	10. Which of the following statements is <u>not</u> supported by the text? a. Environmental water is cleaned before and after human use. b. Crops are irrigated when there is not enough rain. c. Increased water demands require new sources of irrigation water. d. <u>Community wastewater cannot be reclaimed.</u>
3-5-ETS1-2. Engineering Design, Crosscutting Concepts, Influence of Engineering, Technology, and Science on Society and the Natural World: *Engineers improve existing technologies or develop new ones to*	11. Cite an example from the text that illustrates how humans use technology to provide for their needs. a. <u>Water is treated by a series of steps (flocculation, filtration, disinfection) to remove contaminants both before and after use.</u> b. <u>Crops are irrigated when rainfall is insufficient.</u>

increase their benefits, decrease known risks, and meet societal demands.	
3-5-ETS1-2. Engineering Design, Crosscutting Concepts, Influence of Engineering, Technology, and Science on Society and the Natural World: *Engineers improve existing technologies or develop new ones to increase their benefits, decrease known risks, and meet societal demands.* **4-ESS3-1. Earth and Human Activity, Crosscutting Concepts, Connections to Engineering, Technology, and Applications of Science, Interdependence of Science, Engineering, and Technology:** *Knowledge of relevant scientific concepts and research findings is important in engineering.*	12. Two types of irrigation methods are mentioned in the text: overhead spray irrigation and drip irrigation close to the ground. Which of these two methods do you think is likely to lose more water due to evaporation? Explain your answer. The overhead spray irrigation method would lose more water to evaporation because small droplets are sprayed into the air.
3-5-ETS1. Engineering Design, Crosscutting Concepts, Influence of Engineering, Technology, and Science on Society and the Natural World: *1) People's needs and wants change over time, as do their demands for new and improved technologies; 2) Engineers improve existing technologies or develop new ones to increase their benefits, decrease known risks, and meet societal demands.* **5-ESS1. Earth's Place in the Universe, Crosscutting Concepts, Scale, Proportion,**	13. Filtration is a process to separate materials based on the size of particles and how well particles interact with the materials inside the filters. A scientist conducts an experiment to compare two different filters for their effectiveness for removing bacteria from water. The following graph illustrates the number of bacteria remaining in the water samples after the water is treated through two filters that contain different materials intended to trap microorganisms. Which filter is more effective at removing bacteria from the water? Explain your conclusion. Filter B is more effective at removing bacteria because the bar for the treated water is lower meaning fewer bacteria remain in the water.

and Quantity: *Natural objects exist from the very small to the immensely large.*	

Mathematics (Common Core)

Education Content Standard Supported	Question Bank
Measurement and Data, Grades 3 to 5: *Represent and interpret data.* **Geometry, Grade 5:** *Graph points on the coordinate plane to solve real-world mathematical problems*	1. List five ways you use water every day. 2. Ask four other people to list five ways they use water every day. Record your data (from Question 1) and the data from your interviews in the table. 3. Create a bar graph to illustrate the water use data from the table. What use of water is most commonly cited among those surveyed?
Operations and Algebraic Thinking, Grade 4: *Use the four operations with whole numbers to solve problems*	4. If 15 gallons of water are needed to grow one ounce of a certain type of food, how much water is needed to grow 20 ounces of this food? Please show your work. 15 gallons x 20 = 300 gallons
Operations and Algebraic Thinking, Grade 4: *Use the four operations with whole numbers to solve problems*	5. If 150 gallons of water are needed to grow enough of a food crop for 10 people, how many gallons of water are needed to grow enough of this food crop for 1000 people? Please show your work. 150 gallons x 100 = 15,000 gallons
Operations and Algebraic Thinking, Grade 4: *Use the four operations with whole numbers to solve problems*	6. An irrigation water source contains 10,000 bacteria in 1 ml of water. If the maximum number of bacteria allowed for irrigation water for a food crop is 100 bacteria in 1 ml of water, how many bacteria must be removed or inactivated to make the water acceptable for use? Please show your work. 10,000 - 100 = 9,900 bacteria must be removed

Measurement and Data, Grades 3 to 5: *Represent and interpret data.*	7. Filtration is a process to separate materials based on the size of particles and how well particles interact with the materials inside the filters. A scientist conducts an experiment to compare two different filters for their effectiveness for removing bacteria from water. The following graph illustrates the number of bacteria remaining in the water samples after the water is treated through two filters that contain different materials intended to trap microorganisms. Which filter is more effective at removing bacteria from the water? Explain your conclusion. Filter B is more effective at removing bacteria because the bar for the treated water is lower meaning fewer bacteria remain in the water.
Geometry, Grade 3: *Reason with shapes and their attributes* **Geometry, Grade 5:** *Classify two-dimensional figures into categories based on their properties*	8. A cylinder is filled and packed tightly with grains of sand to make a water filter. The bottom of the filter has a screen with tiny holes that allow water to pass through. Sand and large particles will be trapped by the screen. If the diameter of each hole in the screen at the bottom of the filter is 0.01 mm, which of the following particles in the water will be trapped and not flow through with the water? Circle all that apply. a. Pebble (diameter 2 mm) b. Soil particle (diameter 0.02 mm) c. Bacterium (diameter 0.001 mm) d. Virus (diameter 0.00003 mm)
Operations and Algebraic Thinking, Grade 4: *Use the four operations with whole numbers to solve problems*	9. If a water filtration system can clean 10 gallons of water in one hour, how many gallons of water can the system clean in 24 hours? Please show your work. 10 gallons/hour x 24 hours = 240 gallons

Operations and Algebraic Thinking, Grade 4: *Use the four operations with whole numbers to solve problems*	10. If one acre of a food crop field requires 5,000 gallons of irrigation water and a water filtration system can clean 500 gallons of the needed water, how many filtration systems are needed to clean enough water one acre? Please show your work. 5000 gallons/filtration system ÷ 500 gallons = 10 filtration systems

Social Studies

Education Content Standard Supported	Question Bank
Geography 4-5a: *Students will apply knowledge of topography, climate, soils, and vegetation … to understand how human society alters, and is affected by, the physical environment.*	1. List five ways people use water every day.
Geography 4-5a: *Students will apply knowledge of topography, climate, soils, and vegetation … to understand how human society alters, and is affected by, the physical environment.* **Civics K-3a**: *Students will understand that American citizens have distinct rights, responsibilities, and privileges.*	2. If your community had limited supply of water due to a drought, what uses of water would you avoid until the water supply increased? How would you continue to use water during a drought?
Civics K-3b: *Students will understand that positions of authority carry responsibilities and should be respected.* **Civics 4-5a**: *Students will understand that governments … exist for many purposes …*	3. If you were a community leader and your region had limited supply of water due to drought, what would you do to assure there was enough water to meet basic needs?
Geography 4-5a: *Students will apply knowledge of topography, climate, soils, and vegetation … to understand how human society alters, and is affected by, the physical environment.*	4. According to the text, the word irrigation means: a. Too little rainfall b. <u>Process of watering crops when there is not enough rainfall</u> c. A type of contamination

	d. A type of saltwater
Geography 4-5a: *Students will apply knowledge of topography, climate, soils, and vegetation … to understand how human society alters, and is affected by, the physical environment.*	5. Which of the following is not freshwater? a. Drinking water b. Groundwater c. <u>Ocean</u> d. Stream
Geography 4-5a: *Students will apply knowledge of topography, climate, soils, and vegetation … to understand how human society alters, and is affected by, the physical environment.*	6. According to the text, clean water is important for growing food because <u>contaminated water could transfer biological or chemical contaminants to the edible portion of food and cause illness.</u>
Geography 4-5a: *Students will apply knowledge of topography, climate, soils, and vegetation … to understand how human society alters, and is affected by, the physical environment.*	7. The water purification step that inactivates microorganisms is called a. <u>Disinfection</u> b. Filtration c. Flocculation d. Inoculation
Geography 4-5a: *Students will apply knowledge of topography, climate, soils, and vegetation … to understand how human society alters, and is affected by, the physical environment.* **Geography 4-5a:** *Students will understand the reasons for the locations of human activities ….*	8. According to the text, scientists are studying alternative water sources for irrigation because <u>water shortages are already an issue with droughts in some regions and contamination of environmental water in others. With the anticipated increase in human population, the need for water will increase.</u>
Geography 4-5a: *Students will apply knowledge of topography, climate, soils, and vegetation … to*	9. Which of the following statements is <u>not</u> supported by the text? a. Environmental water is cleaned before and after human use. b. Crops are irrigated when there is not enough rain. c. Increased water demands require new sources of irrigation water.

understand how human society alters, and is affected by, the physical environment.	d. Community wastewater cannot be reclaimed.
Geography 4-5a: *Students will apply knowledge of topography, climate, soils, and vegetation … to understand how human society alters, and is affected by, the physical environment.*	10. Cite an example from the text that illustrates how humans use technology to provide for their needs. a. Water is treated by a series of steps (flocculation, filtration, disinfection) to remove contaminants both before and after use. b. Crops are irrigated when rainfall is insufficient

Health Education

Education Content Standard Supported	Question Bank
Standard 1.1: *Describe the relationship between healthy behaviors and personal health*	1. List five ways you use water every day. 2. Ask four other people to list five ways they use water every day. Record your data (from Question 1) and the data from your interviews in the table. 3. Create a bar graph to illustrate the water use data from the table. What use of water is most commonly cited among those surveyed?
Standard 5.1*: Identify health-related situations that might require a thoughtful decision.*	4. If your community had limited supply of water due to a drought, what uses of water would you avoid until the water supply increased? How would you continue to use water during a drought?
Standard 1.3: *Describe ways in which a safe and healthy … community environment can promote personal health.* **Standard 3.1:** *Recognize trusted adults and professionals who can help promote health.* **Standard 5.1***: Identify health-related situations that might require a thoughtful decision.*	5. If you were a community leader and your region had limited supply of water due to drought, what would you do to assure there was enough water to meet basic needs?
Standard 1.1: *Describe the relationship between healthy behaviors and personal health*	6. According to the text, clean water is important for growing food because <u>contaminated water could transfer biological or chemical contaminants to the edible portion of food and cause illness</u>.

Standard 1.3: *Describe ways to prevent communicable diseases*	
Standard 1.3: *Describe ways to prevent communicable diseases* **Standard 2.5:** *Describe ways technology can influence personal health.*	7. The water purification step that inactivates microorganisms is called a. Disinfection b. Filtration c. Flocculation d. Inoculation
Standard 2.5: *Describe ways technology can influence personal health.* **Standard 3.1:** *Recognize trusted adults and professionals who can help promote health.*	8. According to the text, scientists are studying alternative water sources for irrigation because water shortages are already an issue with droughts in some regions and contamination of environmental water in others. With the anticipated increase in human population, the need for water will increase.
Standard 2.5: *Describe ways technology can influence personal health.*	9. Which of the following statements is not supported by the text? a. Environmental water is cleaned before and after human use. b. Crops are irrigated when there is not enough rain. c. Increased water demands require new sources of irrigation water. d. Community wastewater cannot be reclaimed.
Standard 2.5: *Describe ways technology can influence personal health.*	10. Cite an example from the text that illustrates how humans use technology to provide for their needs. a. Water is treated by a series of steps (flocculation, filtration, disinfection) to remove contaminants both before and after use. b. Crops are irrigated when rainfall is insufficient.

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