

Name _____ Date _____

Stimulus


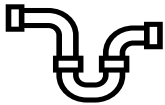


Every time a child goes for a walk in his neighborhood, he sees a lawn sign that says “Slow the Flow.” He asks one of his parents what that means, and the parent says it means to save water by using less water every day. The child realizes he needs to know more about his own water usage (when, where, and how he uses water) to be able to save water.

Your Task

Use the information below to design and communicate how the child might solve the problem (saving water).

Question 1

What questions would be helpful to ask to find out about using water?
Check two things that would be helpful to know.






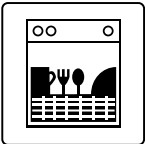
1	2	3	4
What are ways I use water at home?	How does water get to my house?	How many rivers and lakes are near me?	How often do I use water?
			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Question 2

Use the information below to determine how the child's family is using water.

Table 1: Child's family water usage (4 people)

Water Use Task	Times Used In One Day	Gallons used per time	Gallons used per day
Flush toilet 	12	6	72
Run faucet for 1 minute (waiting for water to get hot or cold) 	5	4	20
Fill a bathtub (about 5 inches of water) 	1	40	40
Shower (5 minutes) 	8 (One time recorded for every 5 minutes)	35	280
Wash 1 load of laundry 	1	45	45
Run dishwasher 	1	15	15

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Water Use Task	Times Used In One Day	Gallons used per time	Gallons used per day
Wash a load of dishes by hand (in a basin or plugged sink without water running) 	0	4	0
Brush teeth with water running 	4	8	32
Brush teeth with water off 	4	1	4
Wash hands 	16	1	16
Drink water (It is recommended each person drinks eight 8-ounce glasses of water a day, which equals half a gallon.) 	8	0.25	2
TOTAL			532

(Table adapted from [4-H Water Conservation with the Water Lion](#))

Circle the two tasks which use the most water.

Color the two tasks yellow which use the least water.

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Question 3

Which sentence best describes a way the child's family uses more water than they need to?

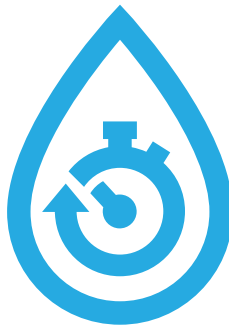
1

His family uses water in too many rooms in his house.



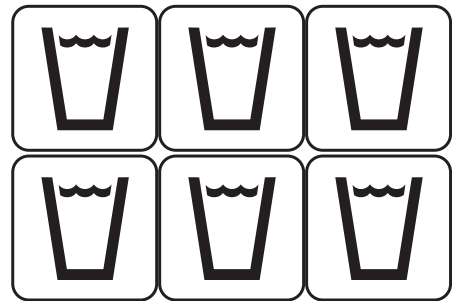
2

His family keeps the water running too long when using water.



3



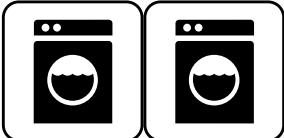
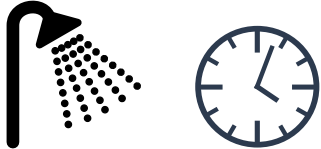
His family drinks too much water.



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Question 4

What two solutions would best help the child's family save water?

1	2	3	4
Turn off water when brushing teeth.	Drink less water.	Wash laundry more often.	Take shorter showers.
			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Look back at information from questions 1, 2, and 3 to help answer this question.

Explain why the two answers you picked are best.

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Question 5

How will the child know if the solution he chose worked?

1

He keeps a log of where he uses water to remind his family to only use water in the bathroom.



2

He keeps a log of when his family uses water and finds they use water for less time each day.



3

He keeps a log of how long it takes for the washing machine to do a load of laundry.

