

## *Residential Water-Use Project*

### Student Data Collection Activities

## Student Data Collection Activity

### Directions:

1. Make a record of how much water your *family* uses each day for **4 weeks** (they do not have to be 4 consecutive weeks. One week minimum is needed for this research). To do this, make a **Data Collection Sheet** on graph paper (like the examples below) for each bathroom, kitchen, and utility room in your house. Place a new copy of the **Data Collection Sheet** in the room every day. Ask your family to write down each time they

- Task 1.** flush the toilet,
- Task 2.** run the clothes washer or dish washer,
- Task 3.** turn on and off the shower or bathtub, or
- Task 4.** turn on and off sink faucet for drinking, cooking, teeth brushing, hand dish washing, or filling containers for washing or watering plants.

2. Figure out how many minutes each shower or faucet activity took by subtracting the time-on from the time-off and enter into the **Data Collection Sheet**. At the end of each day, take down the old sheet and put up a new one. At the bottom of the sheet in the **Total for Day** row, add up the number of toilet flushes, dishwasher loads, and clothes washer loads, and the total number of minutes the showerhead, bathtub, or sink faucet was turned on. Transfer the **totals** (→) for the day from each of the columns to the **Summary Sheet**.

**Example of Bathroom Data Collection Sheet for 1 day**

	Number of toilet flushes	Showerhead			Bathtub faucet			Bathroom Sink Faucet		
		Time On	Time Off	Minutes	Time On	Time Off	Minutes	Time On	Time Off	Minutes
	x x	7:01	7:10	9						
	x	7:30	7:50	20						
→ Total for day	3			29						

**Example of Kitchen and Utility Room Data Collection Sheet for 1 day**

	Clothes washer loads	Dish washer loads	Sink Faucet			Purpose 😊
			Time On	Time Off	Number of Minutes	
			8:00	8:15	15	hand washing dishes
		x				washing load of dishes
	x					washing clothes
→ Total for day	1	1			15	

😊 **Optional, but helpful:** Fill in the purpose (like dish washing, or filling watering can). If you fill in the purpose, then send in your data collection sheets along with your Summary sheets.

## Summary Sheet

School \_\_\_\_\_ Grade \_\_\_\_\_ Teacher \_\_\_\_\_

Your Street Address \_\_\_\_\_ Town \_\_\_\_\_

### Week 1: Begin Date \_\_\_\_\_

Task	Total Water-use Activity	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	Number of non low-flow (old) flushes							
	Number of low-flow (new) toilet flushes							
	Number of ultra low-flow toilet flushes							
2	Number of loads done in clothes washing machine							
	Number of loads done in dish washing machine							
3	Minutes used for shower with regular (old) showerhead							
	Minutes used for shower with low flow (new) showerhead							
	Minutes used in filling bathtub							
4	Number of minutes of faucet use (drinking, cooking, teeth brushing, hand dish washing, or cleaning)							

## Summary Sheet

### Week 2: Begin Date \_\_\_\_\_

Task	Water-use Activity	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	Number of non low-flow (old) toilet flushes							
	Number of low-flow (new) toilet flushes							
	Number of ultra low-flow toilet flushes							
2	Number of loads done in clothes washing machine							
	Number of loads done in dish washing machine							
3	Minutes used for shower with regular (old) showerhead							
	Minutes used for shower with low flow (new) showerhead							
	Minutes used in filling bathtub							
4	Number of minutes of faucet use (drinking, cooking, teeth brushing, hand dish washing, or cleaning)							

**RETURN this sheet to your teacher as soon as you have completed it.**

## Summary Sheet

School \_\_\_\_\_ Grade \_\_\_\_\_ Teacher \_\_\_\_\_

Your Street Address \_\_\_\_\_ Town \_\_\_\_\_

### Week 3: Begin Date \_\_\_\_\_

Task	Water-use Activity	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	Number of non low-flow (old) flushes							
	Number of low-flow (new) toilet flushes							
	Number of ultra low-flow toilet flushes							
2	Number of loads done in clothes washing machine							
	Number of loads done in dish washing machine							
3	Minutes used for shower with regular (old) showerhead							
	Minutes used for shower with low flow (new) showerhead							
	Minutes used in filling bathtub							
4	Number of minutes of faucet use (drinking, cooking, teeth brushing, hand dish washing, or cleaning)							

## Summary Sheet

### Week 4: Begin Date \_\_\_\_\_

Task	Water-use Activity	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	Number of non low-flow (old) flushes							
	Number of low-flow (new) toilet flushes							
	Number of ultra low-flow toilet flushes							
2	Number of loads done in clothes washing machine							
	Number of loads done in dish washing machine							
3	Minutes used for shower with regular (old) showerhead							
	Minutes used for shower with low flow (new) showerhead							
	Minutes used in filling bathtub							
4	Number of minutes of faucet use (drinking, cooking, teeth brushing, hand dish washing, or cleaning)							

**RETURN this sheet to your teacher as soon as you have completed it.**