

Resource Conservation Experimental Lab Sheet



TITLE: By starting some water saving strategies, how much water can I save at my house?

PURPOSE: Why do you think you should do this experiment? What do you hope to learn?
Use complete sentences.

HYPOTHESIS What do you think the answer to your question will be and why?

EXPERIMENT Read the procedure and then identify the following:

Independent Variable: _____

Dependent Variable: _____

Constants: _____

Materials

1 toilet and shower chart for each bathroom in your house

1 washing machine chart for the laundry room

tape

pencil

Procedure:

- 1) Get a toilet and shower chart from Ms. Fitzgerald for every bathroom in your house. Get a washing machine chart for your laundry room.
- 2) Post these signs up in your house once it is time to start collecting Week 1 of data.
- 3) Tell family members to fill out the charts each time they flush the toilet, take a shower, or wash a load of clothes. Check behind them to make sure they are filling out the data.
- 4) Take the signs down at the end of Week 1.
- 5) Look at your data with your family and talk with them about how you can conserve water in your house. Create a water saving plan and write it down.
- 6) Post the second set of signs up in your house and collect a second week of data. Make sure you family is filling it out.
- 7) Analyze your data. What does it tell you?

OBSERVATIONS: Qualitative Data- Fill in each box as you collect data. Write any observations you make about how water is used in your house that day. (For example, maybe your family was gone a lot of the day, maybe you had extra people over, maybe your toilet broke, maybe your brother took an especially long shower and refused to get out.)

Week 1 Observations:

| Date | Observations |
|------|--------------|
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Week 2 Observations:

| Date | Observations |
|------|--------------|
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Quantitative Data: Use the information collected on your shower, toilet, and laundry charts to complete the data charts below.

| Time of Data Collection | Total number of minutes the shower was used | Multiply by "5" to find the total gallons of water used |
|-------------------------|---|---|
| Week1 | | |
| Week 2 | | |

| Time of Data Collection | Total number of toilet flushes | Multiply by "6" to find the total gallons of water used |
|-------------------------|--------------------------------|---|
| Week1 | | |
| Week 2 | | |

| Time of Data Collection | Total number of loads of laundry | Multiply by "50" to find the total gallons of water used |
|-------------------------|----------------------------------|--|
| Week1 | | |
| Week 2 | | |

Week 1 Qualitative Observations:

| Date | Observations |
|------|--------------|
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Week 2 Qualitative Observations:

| Date | Observations |
|------|--------------|
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