

# Resource Conservation Experimental Lab Sheet



**TITLE:** By starting some energy saving strategies, how much energy 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

Electric meter

Data chart

pencil

## Procedure:

- 1) Choose a time each day that you will be home to check your electric meter.
- 2) Check your meter at the same time every day.
- 3) Use your chart to calculate how much electricity you use each day.
- 4) Look at your data with your family and talk with them about how you can conserve energy in your house. Create an energy saving plan and write it down.
- 5) Collect a second week of data the same way you did before, while following your family's energy plan.
- 6) Analyze your data. What does it tell you?

Quantative Data: Complete the chart below while you do your experiment.

Week 1	Date/Time	Electric Meter Reading (Be sure to x10, x20, etc. if needed)	Daily Usage	Cost per Day (multiply daily usage x \$0.1?)
Day 1			N/A	
Day 2			(Day 2 –Day 1)	
Day 3			(Day 3 –Day 2)	
Day 4			(Day 4 –Day 3)	
Day 5			(Day 5 –Day 4)	
Day 6			(Day 6 –Day 5)	
Day 7			(Day 7 –Day 6)	
Total	N/A	N/A		

Week 2	Date/Time	Electric Meter Reading (Be sure to x10, x20, etc. if needed)	Daily Usage	Cost per Day (multiply daily usage x \$0.1?)
Day 1			N/A	
Day 2			(Day 2 –Day 1)	
Day 3			(Day 3 –Day 2)	
Day 4			(Day 4 –Day 3)	
Day 5			(Day 5 –Day 4)	
Day 6			(Day 6 –Day 5)	
Day 7			(Day 7 –Day 6)	
Total	N/A	N/A		

**OBSERVATIONS:** Qualitative Data- Fill in each box as you collect data. Write any observations you make about how energy 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 you had your air conditioner off or maybe you had your heater on full blast!)

**Week 1 Observations:**

Date	Observations

**Week 2 Observations:**

Date	Observations

