The Great Energy Exploration
Utility Room
Grades K-2

Exploration 1

1. Press **Start** on the

2. Turn on the **washing machine** with the **on/off** switch. Is the light **green** or **red**? __________

3. Look at the **current Measures** and press **Pause**

4. Write in the **Watts**. __________

<table>
<thead>
<tr>
<th>Appliance</th>
<th>Part Number</th>
<th>Watts</th>
<th>Watts Used</th>
<th>Usage Cost</th>
</tr>
</thead>
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</table>

- **Current Watts in Use:** ________ W
- **Total Watts Used:** ________ kWh
- **Total Cost:** $________

5. Turn **off** the **washing machine** and press **Reset**
6. Press **Start** on the

7. Turn on the [ ] with the [ ] . How do you know it is on?

8. Look at the [ ] Press [ ]

9. Write in the Watts. ________

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10. Which uses more watts of energy?

11. Turn off the [ ] and press [ ]

Current Time: ________AM

Electricity Cost: ________/kWh

Current Watts in Use: ________W

Total Watts Used: ________kWh

Total Cost: ________
### Exploration 2

1. Press **Start** on the

2. Turn on the ** Appliance** with the ** .

3. Look at the ** Appliance** Press **Pause**

4. Write in the Watts: ________________

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**Current Time:** __________AM  
**Electricity Cost:** __________/kWh

- **Current Watts in Use:** __________W  
- **Total Watts Used:** __________kWh  
- **Total Cost:** $ __________

5. Turn **off** the ** Appliance** and press **Reset**
6. Press **Start** on the 

7. Turn on with the 

8. Look at the Press **Pause**

9. Write in the Watts. __________

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Current Time: ____________ AM  
Electricity Cost: __________$/kWh

Current Watts in Use: __________ W  
Total Watts Used: __________ kWh  
Total Cost: $ __________

10. Which uses more watts of energy? __________

11. Turn off the and press **Reset**
Discussion 2

1. Which of the 4 appliances uses the most Watts?

   ![Appliance Images]

2. Why do you think it uses the most?

   ___________________________________________________________
   ___________________________________________________________
   ___________________________________________________________
Exploration 3
1. Press 🔄 and then 🎁

3. Turn on 3 appliances.

4. Look at the 📈

5. Press 🌇 at 10:00AM

6. Draw the line graph from the 📈.

Discussion 3

1. Which appliance uses the most electricity?
   ________________________________

   2. Why do you think that appliance uses the most electricity?
   ________________________________
   ________________________________
   ________________________________

Turn off the appliances.
Exploration 4

1. Go to the store. Pick out 2 appliances that match your room.
   Plug them into the outlets that match your appliances.

2. Draw or write what you picked.
   We picked _______________ and _______________

3. Which appliance do you think uses more energy?
   ___________________________________________________________________

4. Why did you make that prediction?
   ___________________________________________________________________

5. Turn on your 2 appliances.

6. Was your prediction correct? _______________
   Why or why not? ___________________________________________________________________
Apply it:

You have a fuse box in your house.

If you have too many appliances turned on, you might blow a fuse.

You would need to turn something off and reset the fuse.

Pick three appliances either from your room or from the store. The appliances need to go with your room.

What 3 did you pick? ______________________________

__________________________________________________________________________

__________________________________________________________________________

__________________________________________________________________________

Experiment with your three appliances by plugging them in and turning them on.

If you were using too much energy and blew a fuse, which of the 3 should you unplug? Why?

__________________________________________________________________________

__________________________________________________________________________

__________________________________________________________________________