The Great Energy Exploration
Grades K-2

Your room: Bedroom/Bathroom

Exploration 1

1. Press **Start** on the

2. Turn on the **water heater** with the **light switch**. Is the light green or red? ______________

3. Look at the **digital meter**. 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>
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</table>

Current Time: __________AM
Electricity Cost: __________/kWh

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

5. Turn **off** the **light switch** and press **Reset**
6. Press 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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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
Exploration 2

1. Press on the

2. Turn on the with the .

3. Look at the . Press .

4. Write in the Watts. __________

<table>
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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 and press .
6. Press **Start** on the

7. Turn on [iron icon] with the [light bulb icon].

8. Look at the [monitor icon] 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 [light bulb icon] and press **Reset**
Discussion 2

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

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

1. Raise your hand so an electricity technician can switch your standard meter with a SMART meter.

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

What did you pick?

______________________________________________________________

______________________________________________________________

______________________________________________________________

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

Which appliance would save the most money by using it at night?

______________________________________________________________