Activity Preparation Guide for



How Much Is That?

How can we think about how much energy is involved in some common activities?

Advance Preparation Materials & Procedures

- How Much is That game board template (Website)
- Big Mac cards template (Website)
- Refrigerator cards template (Website)
- Wood & Gasoline burned cards template (Website)

- How Much is That answer sheet (Website)
- Card stock
- Scissors
- Paper cutter (optional)
- Clear tape
- 1. Print the 6 game board pages in color, on white paper or card stock.
- 2. Cut around the dark lines of each of the tables on these six pages and lay them out as shown in the diagram below.

Activity	Big Macs	Refrigerator	Wood Burned	Gasoline Burned
Watching 4 hours of TV/day for a year (American average)				
Driving across the U.S. from Richmond, VA to San Francisco, CA	8	Macs & erators	Woo	
Sumaing a set of 100 standard Christmas lights for the menth of December				
Running a set of 100 LED Carristmas lights for the month of December				
Flying from Scottle, WA to Disney World, FL				
Taking a ter-minute hot shower every morning for a week				

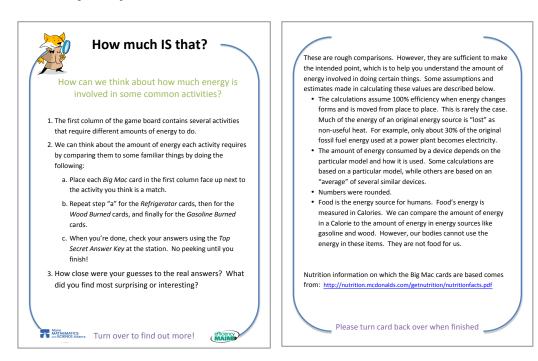
- 3. Tape all the sections together.
- 4. Consider laminating the game board before proceeding.

- 5. On card stock and in color, print one set each of the Big Mac, Refrigerator, Wood Burned, and Gasoline Burned cards. Cut them out and sort them into their individual piles.
- 6. Print a copy of the Top Secret Answer Key and fold it so the answers are inside.

Activity Supplies

- Station card (1)
- Game board (1)
- Big Mac cards (1 set of 6 cards)
- Refrigerator cards (1 set of 6 cards)
- Gasoline burned cards (1 set of 6 cards)
- Wood burned cards (1 set of 6 cards)
- Top Secret Answer Key

Activity Steps



Variations and Extensions

- Encourage families to look up the units used to measure energy in food, electricity, gasoline, and wood.
- Encourage families to determine how much solar, or wind power it would take to accomplish one or more of the activities identified at this station.