

Name \_\_\_\_\_

### Cold Food Only Day Worksheet

The following table compares the cost of cooking the same meal in different ways. Complete the table by calculating the cost, assuming the cost of electricity is \$0.95 a kWh.

1. Write an equation to calculate the cost for each way of preparing food, where  $c$  = cost. Then use it to complete the last column of the table.

Equation: \_\_\_\_\_

Appliance	Temperature	Time	Energy (total)	Cost (in dollars)
Electric oven	350	1 hour	2.0 kWh	
Convection oven	325	45 minutes	1.39 kWh	
Frying pan	420	1 hour	0.9 kWh	
Toaster Oven	425	50 minutes	0.95 kWh	
Electric Crockpot	200	7 hours	0.7kWh	
Microwave Oven	"High"	15 minutes	0.36 kWh	

From [http://eartheasy.com/eat\\_kitchen\\_enersave.htm](http://eartheasy.com/eat_kitchen_enersave.htm).

2. Write an equation to show how you would calculate how much energy is used per hour by each appliance, where  $e$  = energy (in kW).

\_\_\_\_\_

3. How much energy does the toaster oven use per hour? \_\_\_\_\_ kW

4. 1 kW = 1000 watts. How many watts does the toaster oven use per hour? \_\_\_\_\_ w

5. List cold foods from each food group below.

Grains & starches: \_\_\_\_\_

Meat, nuts, & beans: \_\_\_\_\_

Dairy: \_\_\_\_\_

Fruit: \_\_\_\_\_

Vegetables: \_\_\_\_\_

Dessert or snack: \_\_\_\_\_