

the Chemical energy in Cheeto is... transformed into heat energy in the foil. Transferred to heat energy in the water.

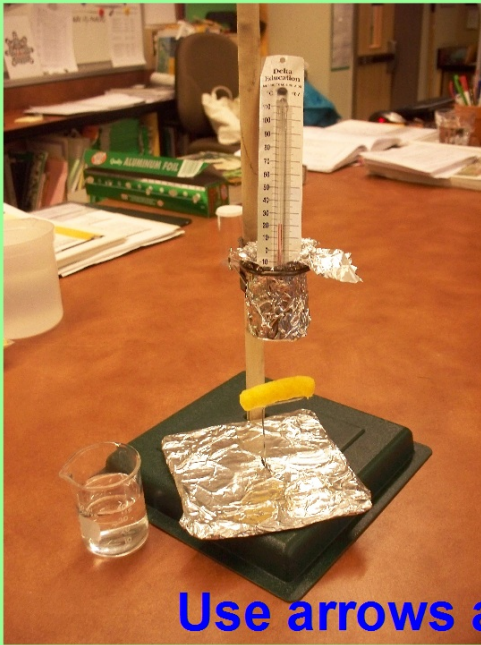


Use arrows and words to show how energy was transferred and transformed in this system.



**Learning**

**target:** I can explain what happens to the energy from the sun once it has been converted into food energy in the glucose.



Use arrows and words to show how energy was transferred and transformed in this system.



**Learning target:** I can explain what happens to the energy from the sun once it has been converted into food energy in the glucose.

Heat is measured in units called calories.

One calorie is the amount of energy needed to raise the temperature of 1ml of water by 1°C

*How many calories of heat did your burning cheese ball transfer to the water?*

1000 (10920 c.  
1) (kc) kilocal.  
11 Calories .

**Learning**

**target:** I can explain what happens to the energy from the sun once it has been converted into food energy in the glucose.

<b>Nutrition Facts</b>	
Serving Size 1 oz (28g/About 13 pieces)	
Servings Per Container About 10	
Amount Per Serving	
<b>Calories</b> 160	Calories from Fat 90
% Daily Value*	
<b>Total Fat</b> 10g	<b>15%</b>
Saturated Fat 2g	<b>10%</b>
Trans Fat 0g	
<b>Cholesterol</b> 0mg	<b>0%</b>
<b>Sodium</b> 350mg	<b>15%</b>
<b>Total Carbohydrate</b> 13g	<b>4%</b>
Dietary Fiber 0g	<b>0%</b>
Sugars 1g	
<b>Protein</b> 2g	

*Does your result make sense?*

*you calculated the scientific calorie (c)*

Photosynthesis and Energy in food #5

volume water	20 ml	20 ml
Final temp	90°C	62°C
Starting temp	20°C	50°C
temp change	70°C	12°C

$70^\circ\text{C} \cdot 20 \text{ ml} = 1400 \text{ calories}$

*1 food calorie  
Kilocalorie = 1,000  
calories.*



### Learning

**target:** I can explain what happens to the energy from the sun once it has been converted into food energy in the glucose.