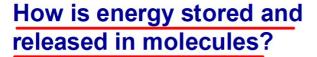
# What type of energy is stored in molecular bonds?

Chemical
Mechanical (movement)
Heat
Light

What type of energy transfer would occur when food is used for energy to create movement?

Chemical ----> Kinetic (Mechanical



**Bonds:** 

**Breaking: Digestion** 

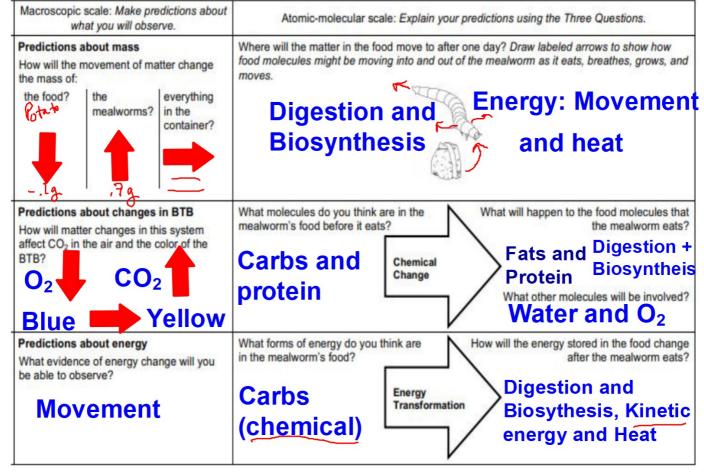
**Building bonds: Biosynthesis** 

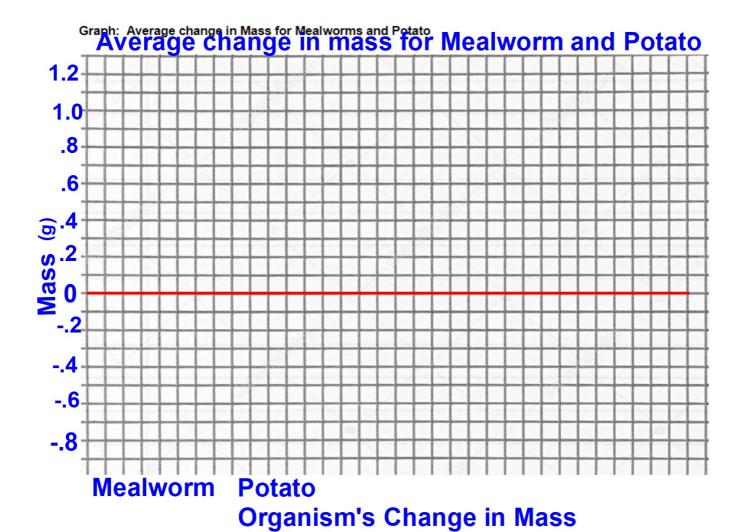
What type of energy transfer would occur when food is used for energy to keep an organism warm?

Chemical ----> Heat

**Water Plants** 

## Predictions Tool: What do you predict you will observe when mealworms eat? (Hypothesis





## Where are molecules moving Use the Prediction sheet to help you!!! Claim: Evidence Reasoning (mass change) How are atoms in molecules being rearranged into different molecules? Claim: Evidence Reasoning (food labels) (BTB) What is happening to energy? Claim: Evidence Reasoning (evidence of mealworms using energy)

### **Dried Mealworms**

#### **Potato**

#### **Nutrition Facts** 1 servings per container Serving size (100g)**Amount Per Serving** Calories Total Fat 19g 24% Saturated Fat 4g 20% Trans Fat 0g Cholesterol 150mg 50% Sodium 180mg 8% Total Carbohydrate 15g 6% Dietary Fiber 9g 31% Total Sugars 0g Includes Og Added Sugars 0% Protein 55g 110% Vitamin D 0mcg 0% Calcium 81mg 6% Iron 4mg 20% Potassium 1100mg 25% "The % Daily Value (DV) tells you how much a nutrient in a serving of tood contributes to a daily diet. 2,000 calories a day is used for general nutrition advice.

<b>Nutrition F</b>	acts
1 servings per container	
Serving size	1 (148g)
Amount Per Serving	
Calories	110
	% Daily Value
Total Fat 0g	0%
Saturated Fat 0g	0%
Trans Fat 0g	
Cholesterol 0mg	0%
Sodium 0mg	0%
Total Carbohydrate 26g	9%
Dietary Fiber 2g	7%
Total Sugars 1g	
Includes 0g Added Sugars	0%
Protein 3g	6%
Vitamin D 9mog	0%
Calcium 26mg	2%
Iron 1.08mg	6%
Potassium 846mg	20%
"The % Daily Value (DV) tells you how much serving of food contributes to a daily diet. 2, day is used for general nutrition advice.	