

Energy conversions project

Name: _____

Date: _____ Per: _____

Goal: to trace the energy conversions that take place starting at our major source of energy that allows humans to use food energy to perform tasks.

Requirements:

- 1) Use the information you have learned about energy conversions to trace the energy (starting at the sun) that take place that allow you to use your favorite food (ingredient) to play your favorite sport or do your favorite activity.
- 2) You have the choice of either **writing a step by step procedure** OR **drawing a detailed flow chart/diagram** to convey the information.
- 3) Your final product must have at least 7 steps and start with the sun and end with your activity.
 - a. Procedures must be in complete sentences.
 - b. Flowcharts/diagrams must have at least 4 pictures along with the descriptions.
- 4) All 7 types of energy must be **highlighted** or **underlined** in your final product.
- 5) You must create a key that contains the types of energy used in your assignment and the correct definitions.
- 6) The following terms need to be correctly used (and prove you know what they mean):

sun	photosynthesis	Digestion/digested	intestine
stomach	esophagus	cells	Absorption/absorbed
Sugar/glucose	Circulatory system	ATP	Cellular respiration

- 7) Work must be neat and legible, and no spelling errors. Points will be deducted for messy final products or *tiping errers*.
- 8) Rubric must be handed in with final product.
- 9) 5 points will be deducted for every school day it is late.

Student Checklist	Requirement	Possible Points	Points Earned
	7 total steps ~starts with sun ~ends with activity	3.5	
	7 types of energy and conversions are described correctly	7	
	7 types of energy are correctly defined in a key	7	
	All 12 terms are correctly used to describe the process involved in energy conversion: ~sun ~photosynthesis ~digestion/digested ~intestine ~stomach ~esophagus ~cells ~absorption/absorbed ~sugar/glucose ~circulatory system ~ATP ~cellular respiration	12	
	All types of energy are highlighted or <u>underlined</u>	3.5	
	Procedures are in complete sentences OR Flow charts/diagrams have at least 4 pictures	2	
	Correct spelling and grammar, neat	-1 (per error)	
	Total	35	