Modeling Cellular Respiration

Name Per

Checkpoint 1:

1. Where is chemical energy stored in an organism?

2. In addition to carbohydrates and fats, what other molecule does an animal need to use energy?

Checkpoint 2: Fill out the Reactants part of the table below

Checkpoint 3: Fill out the products part of the table below

		MATTER			**ENERGY**	
		How many carbon atoms?	How many oxygen atoms?	How many hydrogen atoms?	How many twist ties?	What forms of energy?
	Reactants					
Checkpoint 2	Glucose					
	Oxygen					
	REACTANTS TOTALS					
	Products					
Checkpoint 3	Carbon Dioxide					
	Water					
	PRODUCTS TOTALS					

Checkpoint 4

1. Did the number and type of atoms stay the same at the beginning and end of the chemical change? ____
2. Did the number of twist ties (representing energy) stay the same at the beginning and end of the chemical change? ____
3. Why do the numbers of atoms and twist ties have to stay the same?

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