

Modeling Photosynthesis

Name _____

1. What forms of energy are involved in photosynthesis?

2. Where is the energy stored in glucose?

		MATTER				ENERGY	
		How many molecules ?	How many carbon atoms?	How many oxygen atoms?	How many hydrogen atoms?	How many twist ties? (Note – even if they aren't attached to a molecule, they still exist!)	What forms of energy?
Reactants							
Checkpoint 1	Carbon Dioxide(CO2)						
	Water (H2O)						
	REACTANTS TOTALS						
Products							
Checkpoint 2	Glucose (C6H12O6)						
	Oxygen (O2)						
	PRODUCTS TOTALS						

Checkpoint 1: Fill out the **Reactants** part of the table above then check the key

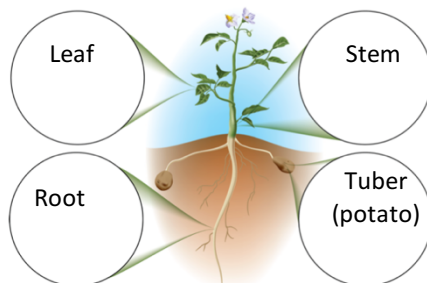
1. Where do you think the plant gets the carbon dioxide? The water? Be specific about how those molecules enter the plant.

Checkpoint 2: Fill out the **Products** part of the table above then check the key

2. What do you think happens to that glucose?

3. What do you think happens to the oxygen?

4. Where in the plant does this happen? Put an X in the circle of all the parts that do photosynthesis:



5. Go back and check your answers at the top and make corrections if needed.