

Photosynthesis Foldable

Rubric

NAME:	Period:	Date:	Possible Points	Points Earned
Plant drawing (colored and labeled all major organs)			5	
Plant cell (colored and labeled all organelles)			10	
Drawing of the site of photosynthesis***chloroplasts*** (colored and label its internal structure)			10	
Radiant Energy (identified correctly, defined and labeled)			10	
Carbon Dioxide (role in process defined, labeled, shown at correct location on plant)			10	
Water (role in process defined, labeled, shown at correct location on plant)			10	
Glucose (explain how glucose is made by the plant)			10	
Oxygen (explain why it is a by-product)			10	
Photosynthesis Equation			10	
Label Reactants and Products in the equation			5	
Neatness and creativity and complexity of the foldable (it must be in the form of a foldable with multiple layers)			10	
Total Points			100	

- **Cut out rubric above and attach to your foldable BEFORE you turn it in!**
- **Make sure to fill in your name, period and date!**

Task: Draw a picture of a plant. Label the picture to identify the different parts of the plant involved in the process of Photosynthesis. Include a picture of the plant cell and one of the organelle involved in photosynthesis. Be sure to include the energy transformations that take place during this process. You **MUST** include the following terms/items:

- **Radiant Energy**- needs to be labeled correctly in your picture, identify sources of radiant energy, and define its role in the process of photosynthesis.
- **Carbon Dioxide**- needs to be labeled at the point it enters or is absorbed into the plant, must be very specific (at the cellular level) define its role in the process of photosynthesis.
- **Water/H₂O**- needs to be labeled at the point it enters or is absorbed into the plant, the correct vessel it moves through the plant and where is needed. (define its role in the process of photosynthesis)
- **Glucose**- Explain its role in the process of photosynthesis, where and how is it made by the plant (be specific at the cellular and tissue levels. (3-4 sentences)
- **Oxygen**-Explain its role in the process of photosynthesis, why is it considered a by-product? What is a by-product?
- Include the **equation for Photosynthesis** at the top of your picture, identify the different compounds (ie: CO₂ is Carbon Dioxide, see notes for details)
- Identify the **reactants** and the **product** in the equation