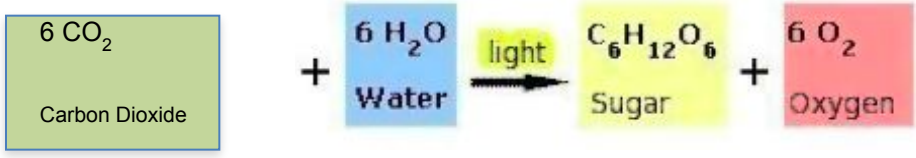
Claim-Evidence-Reasoning

Name: _____ Date: _____

Scenario

Below is the equation of photosynthesis. Photosynthesis is a process that takes place in plants. Notice that $C0_2$ and water are converted into sugar and oxygen.

External Data



Prompt:

When you go home tonight, your mother asks you to explain to her what happens during the process of photosynthesis. Your mother is a science teacher, so make sure you use scientific terms to give her a scientific explanation of how energy is stored as sugar in plants through photosynthesis.

Claim:

Evidence:

Reasoning:

Rebuttal:

Claim-Evidence-Reasoning

Photosynthesis CER

Rubric for Writing a Scientific Explanation

Points Awarded	2	1	0
Claim	Claim is complete and accurate.	Claim is incomplete or inaccurate.	Student does not make a claim or does not answer the question.
Evidence	Evidence cites data and patterns within the data and uses labels accurately.	Evidence cites data from the data source but not within the context of the prompt.	There is no evidence, or changes are cited but do not use data from the data source.
Reasoning	Student cites the scientifically accurate reason using correct vocabulary, connects the reason to the claim, and shows accurate understanding of the concept.	Student cites a reason, but it is inaccurate or does not support the claim. Reasoning does not use scientific terminology or uses it inaccurately.	There is no reasoning, or student relies on a restatement of the claim.
Rebuttal	Rebuttal provides reasons for different data or outliers in the data, offers relevant real-world cases, or suggests other uses for the findings.	Rebuttal is not connected to the data, or it is not accurate.	Student does not offer a rebuttal.