



MODELING

CONSERVATION OF MATTER IN

PHOTOSYNTHESIS

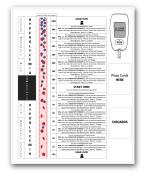
TARGETS NGSS



THANK YOU FOR **EXPLORING** MY WORK!

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OTHER BIO DISTILLED RESOURCES YOU MIGHT ENJOY



GLUCEMIA BOARD GAME

Students explore homeostasis and feedback mechanisms through an interactive board game





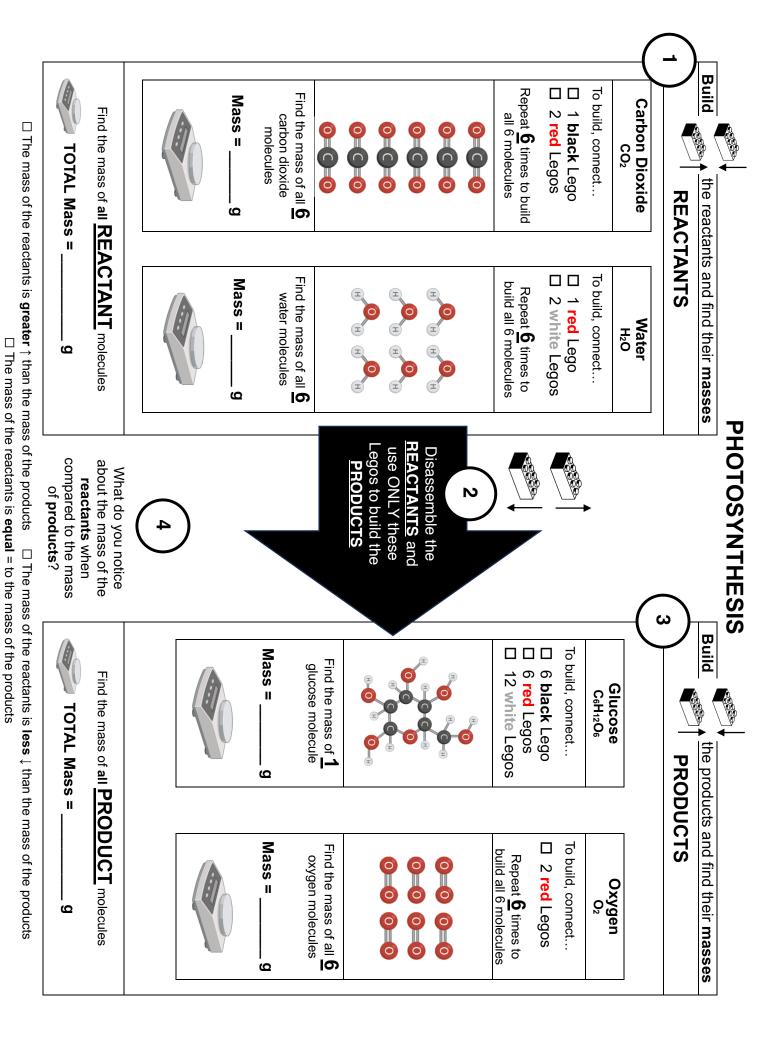
A structured-inquiry lesson that complements the Conservation of Matter in Photosynthesis Model. Differential for 2-Levels of Learners

FROM Molecules TO ORGANISMS

PHOTOSYNTHESIS

A structured-inquiry unit exploring plant structure and function, photosynthesis, and conservation of matter and energy through labs, modeling activities and scaffolded analysis guestions.







FROM MOLECULES TO ORGANISMS HS-LS1-5 PHOTOSYNTHESIS

Guiding Question: Where does the mass a seed gains as it grows into a tree come from?

1. Use the **Reactants and Products of Photosynthesis Build Map** you just completed on the previous page to fill in the missing masses for each reactant/product of photosynthesis pictured below:

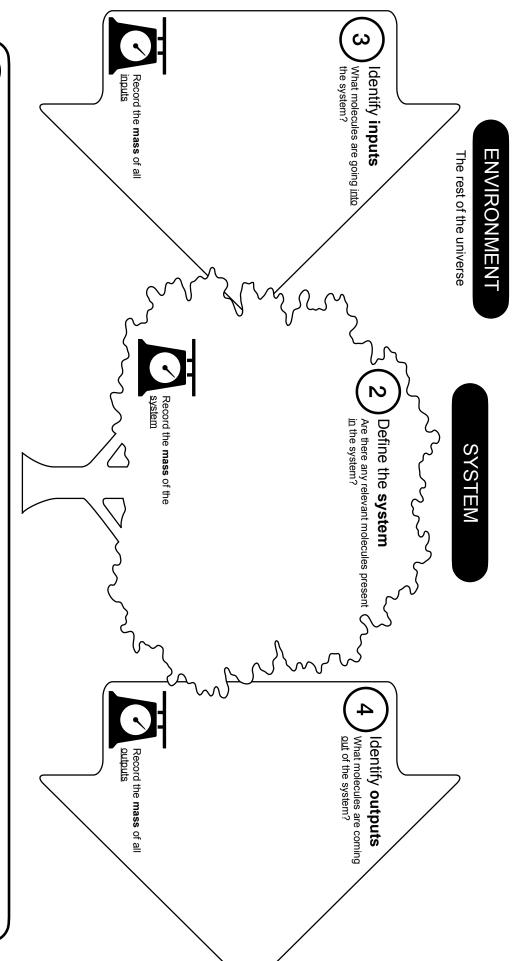
- **2.** Use scissors >< to **cut out** the reactants and products of photosynthesis pictured above
- **3.** Use the following information to determine where each reactant/product of photosynthesis should be placed in your **System and System Models** Graphic Organizer on the following page.
 - □ Plants inhale carbon dioxide during photosynthesis
 □ Plants exhale oxygen during photosynthesis
 □ Plants absorb water from the soil (and air) to carry out photosynthesis
 □ Plants store the glucose (sugar) made during photosynthesis in

their bodies



System and System Models

model is constructed for Describe the phenomenon your Photosynthesis helps a tiny seed to grow into a large tree.



5 Explain why the <u>mass</u> of the system increases, decreases or stays the same

The mass of the system

because...

□ increases

□ decreases

□ stays the same

ACKNOWLEDGEMENTS

FONTS, GRAPHICS AND INSPIRATION FROM...









