

Photosynthesis/Respiration Foldable

Directions

1. Correctly fold the paper according to the teacher's instructions.
2. Cut out the 2 diagrams.
3. Paste the Photosynthesis diagram on the **LEFT TOP FRONT** page.
4. Paste the Respiration diagram on the **RIGHT TOP FRONT** page.
5. On the **INSIDE, TOP, LEFT** - identify numbers 1-13.
6. On the **INSIDE, TOP, RIGHT** identify numbers 14- 22.
7. On the **INSIDE, BOTTOM, LEFT** - answer the following questions.
 - a. Label the part LIGHT DEPENDENT REACTIONS.
 - b. Where are all of the reactants used (specifically) throughout photosynthesis?
 - c. Where are all of the products made (specifically) throughout photosynthesis?
 - d. Draw a chloroplast. Label the grana, stroma, and thylakoid.
8. On the **INSIDE, BOTTOM, RIGHT**- answer the following questions.
 - a. Label this part AEROBIC RESPIRATION
 - b. Draw the flowchart (use notes) from glucose all the way to the end of ETC.
 - c. Indicate where each process (boxes) occurs.
 - d. Indicate how much ATP is produced during each process.
9. On the **BACK LEFT COVER** - answer the following questions.
 - a. Label this part LIGHT INDEPENDENT REACTIONS
 - b. What are all the names of this stage?
 - c. Name the reactant used in this stage.
 - d. Name the product used in this stage.
 - e. What is used from Stage #1 to help run this stage.
 - f. Where does this occur in a chloroplast?
 - g. Draw the Calvin cycle to explain how this process works.
10. On the **BACK RIGHT COVER** - answer the following questions.
 - a. Make a T-chart or divide this section into 2 parts.
 - b. Label one part LACTIC ACID FERMENTATION.
 - c. Label the second part ALCOHOLIC FERMENTATION.
 - d. Indicate where each process takes place within the cell.
 - e. Indicate all products
 - f. List 4 facts about each
 - g. Explain how much ATP each process (alone) produces.

