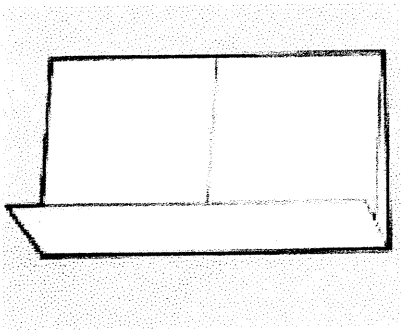
Class Copy

PHOTOSYNTHESIS & CELLULAR RESPIRATION FOLDABLE



FOLD DIRECTIONS:

1. Fold a sheet of paper in half horizontally (hamburger) so that one side is one inch longer than the other side.
2. Cut the shorter side in half, up towards the fold (mountain top) to create two flaps.

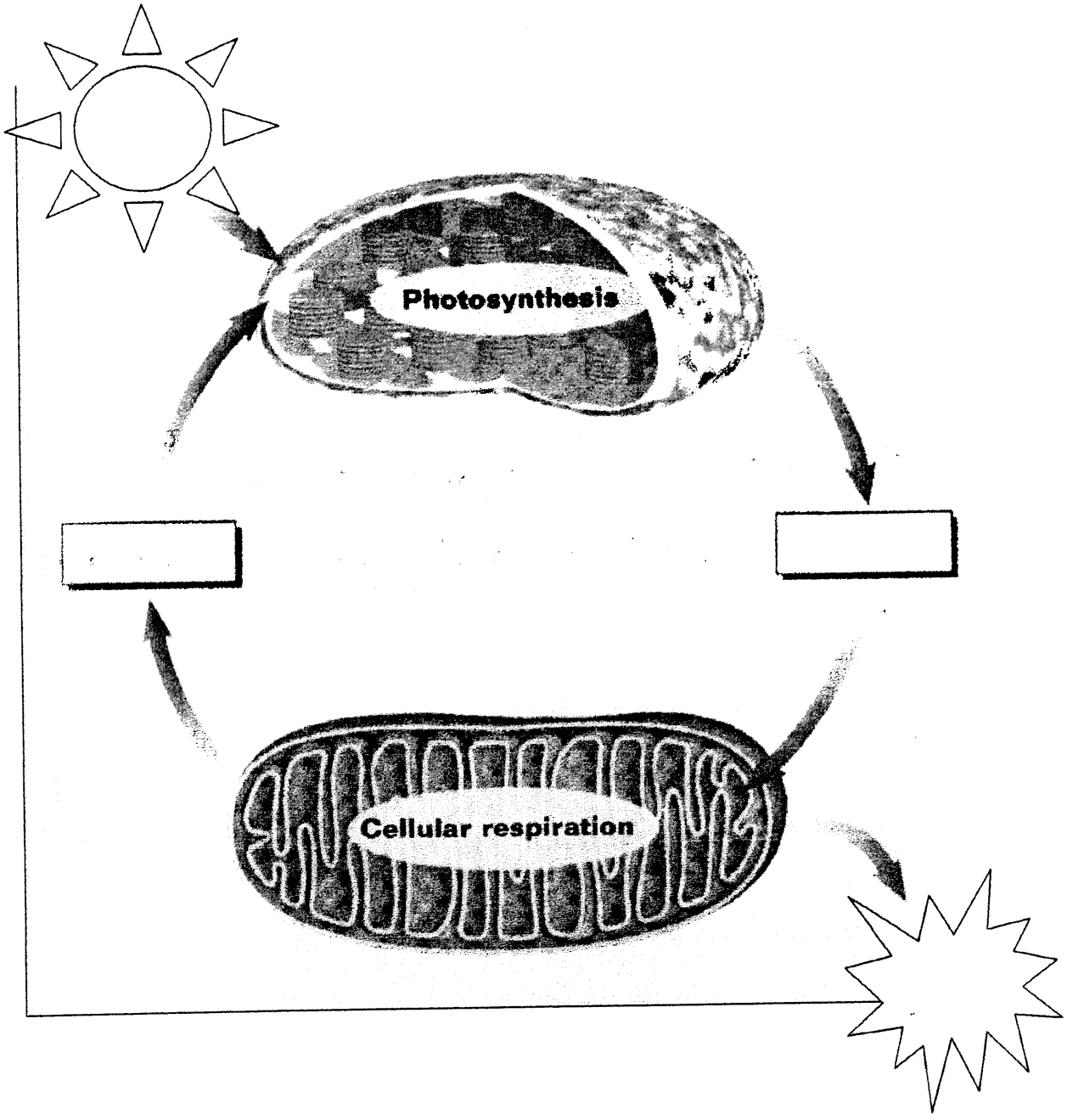
LABEL FRONT OF FLAPS

1. Label the **LEFT** flap, PHOTOSYNTHESIS, and sketch, label, and color the CHLOROPLAST.
   label: Thylakoid, Grana, stroma
2. Label the **RIGHT** flap, CELLULAR RESPIRATION, and color, label, and sketch the MITOCHONDRIA. label: Matrix, Inner membrane
3. Label the **BOTTOM** flap, METABOLISM - ENERGY TRANSFORMATIONS.

LABEL BACK OF FLAPS

1. On the **LEFT BACK** flap include the following:
   a. Equation for photosynthesis?
   b. What occurs in the light-dependent reactions? What is the product of the light reaction?
   c. What occurs in the light-independent reactions?
2. On the **RIGHT BACK** flap include the following:
   a. Equation for cellular respiration?
   b. What is glycolysis & where in the cell does it occur? How many ATP does it produce?
   c. What's the Kreb's cycle and where does it take place in the cell? How many ATP?
   d. What is the electron transport chain and where does it occur? How many ATP?

CENTER UN-CUT SECTION Sketch and color the photorespiration diagram below. Explain how these two processes are related. (HINT: WHAT IMPORTANT ELEMENT IS BEING RECYCLED?)



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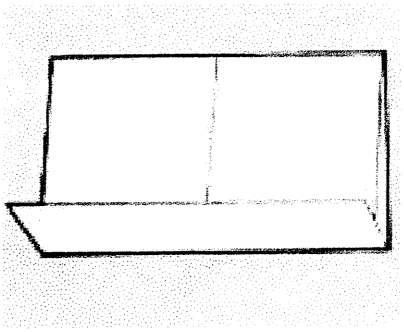

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Color +1

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5/5

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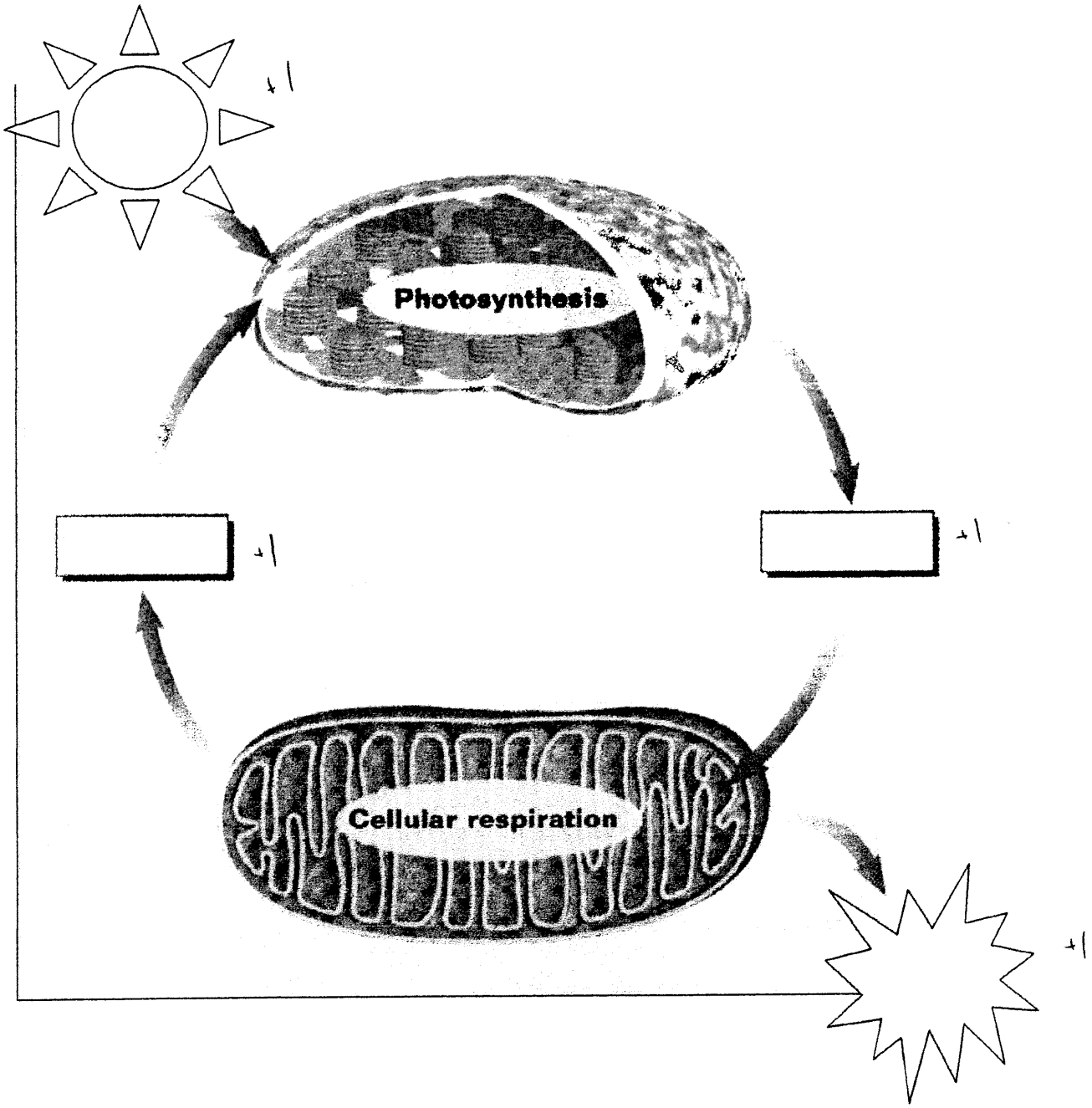

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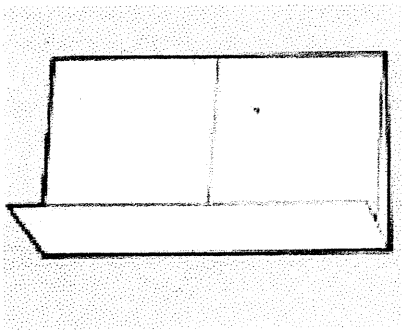

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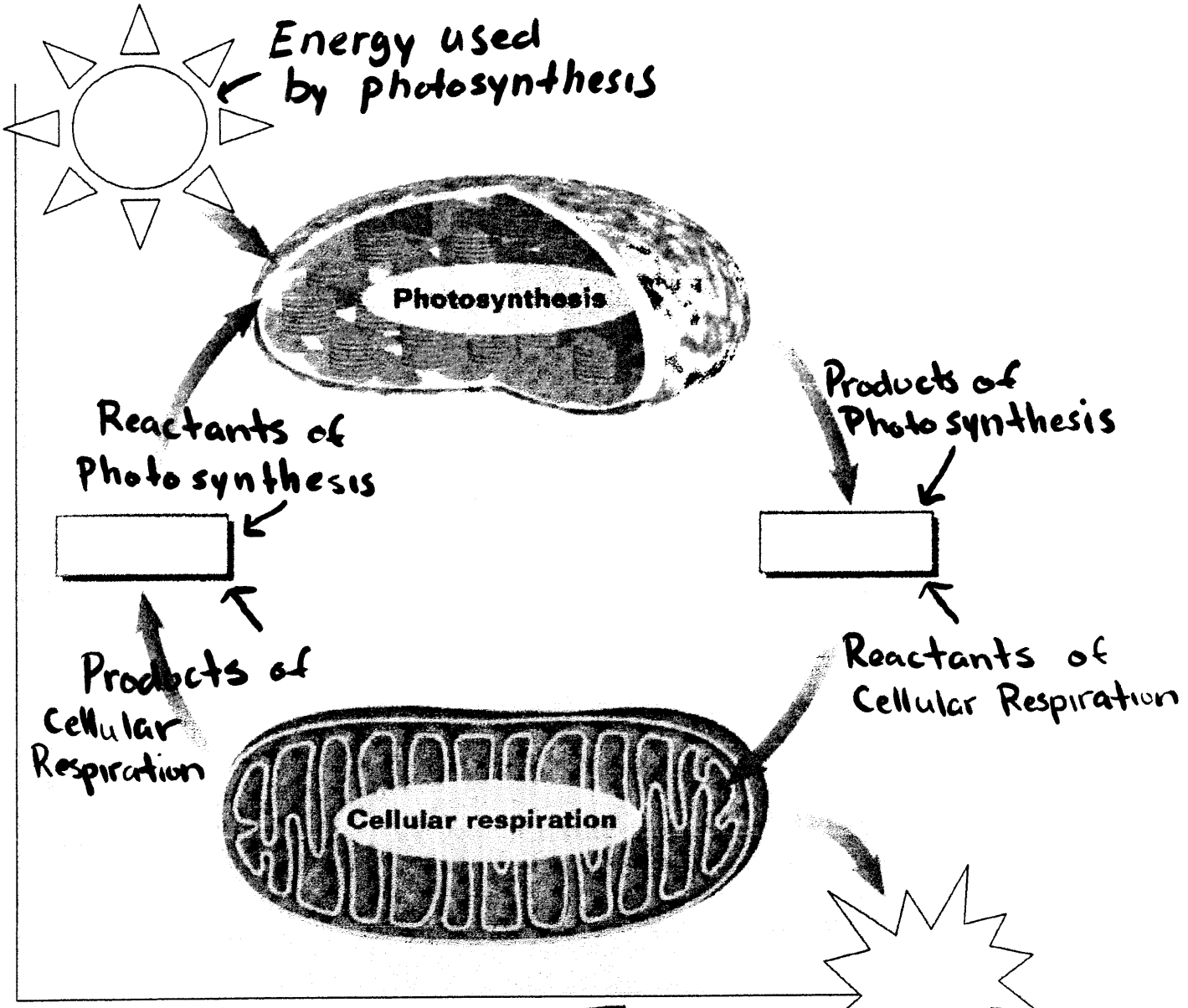

***HINT**

use both photosynthesis and cellular respiration equations

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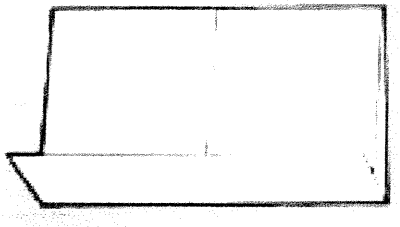

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