

CONNECT



Credits:

Water clipart & background graphics created by me 😊

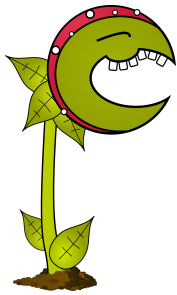
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Name: _____ Date: _____ Per: _____



PHOTOSYNTHESIS COMIC STRIP

ASSIGNMENT: Based on what we have studied about photosynthesis, create a comic strip story that demonstrates your understanding of this two-stage process.

PHOTOSYNTHESIS - HOW PLANTS GET THEIR ENERGY

Photosynthesis is made up of two words, photo and synthesis. Photo means light and synthesis means putting together. Just like the name implies, photosynthesis uses light energy to create food for the organism. The process occurs in two stages:

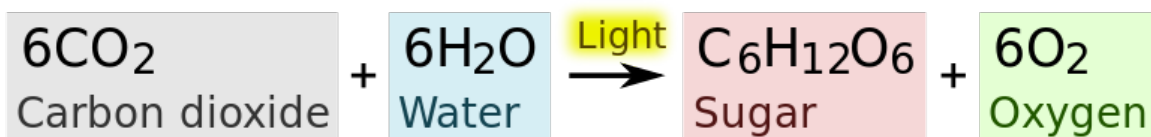
STAGE 1 (LIGHT DEPENDENT STAGE)

Light energy is absorbed by chlorophyll, a green substance found in chloroplasts.

STAGE 2: (LIGHT INDEPENDENT STAGE)


Absorbed light energy is used to convert carbon dioxide (from the air) and water (from the soil) into a sugar called glucose. Oxygen is released as a by-product.

CHEMICAL EQUATION FOR PHOTOSYNTHESIS:



This chemical reaction supplies food for most plants, most algae, and certain types of bacteria. Without photosynthesis, all of Earth's organisms, *not just plants*, would lack the energy needed to survive.

COMIC EXPECTATIONS

- Your comic should explain how plants make their own food using the process of photosynthesis. You must clearly label where phase 1 and phase 2 occur in your comic.
- You must include the following vocabulary words: photosynthesis, light dependent, light independent, sunlight, energy, chlorophyll, pigment, chloroplast, stomata, carbon dioxide, water, sugar, glucose, and oxygen.
- Your comic must contain illustrated scenes and dialogue, within comic bubbles, that match your storyline. Your illustrated scenes should be labeled where appropriate.
- Sorry, no stick figures allowed! 
- Proper spelling and grammar should be used and all wording should be legible (easy to read).
- Your comic should be neat and colorful.
- Be creative! Tell your story in a fun comic-style fashion. You should create a comic character to match your story. For example, you could take the role of a plant cell, a particular type of plant, a leaf, sunlight, a teacher, yourself, or any other fun character that you can link to your storyline. 😊

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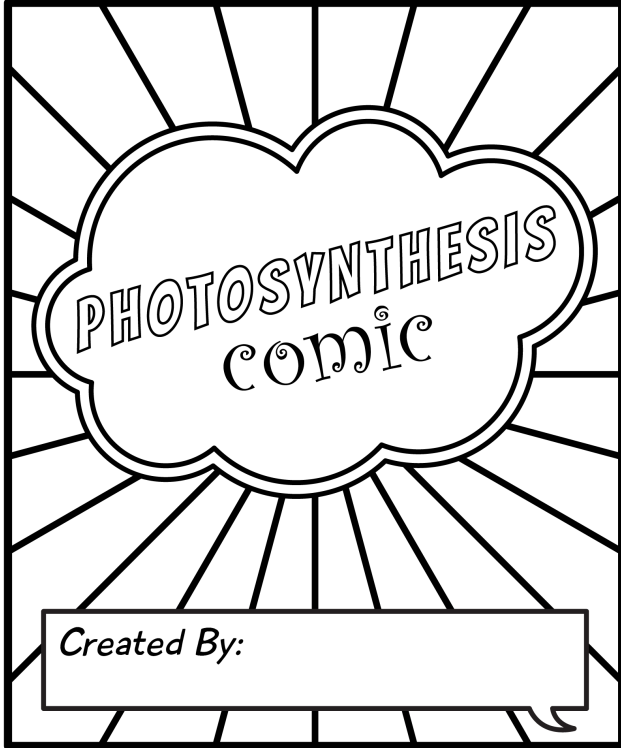
SCORING RUBRIC		
Category	Points Possible	Points Earned
Content ➤ Comic explains how plants make their own food in a two-stage process called photosynthesis.	10	
Illustrated Scenes ➤ Each comic panel has colored, somewhat detailed illustrations that match the scene.	10	
Dialogue & Vocabulary ➤ The story includes dialogue, within comic bubbles, that is well matched to the storyline. The comic includes all of the required vocabulary words.	10	
Spelling & Grammar ➤ No spelling, punctuation, or grammar errors are present.	5	
Clarity & Neatness ➤ The comic is legible and easy to understand. Labels are included where appropriate.	5	
Creativity ➤ The comic is not purely informational. The story is told in a comic-style fashion and combines words and illustrations to create a fun, but informative, story.	10	
SCORE TOTAL: (Out of 50 Points Possible)		
PERCENTAGE:		
LETTER GRADE:		

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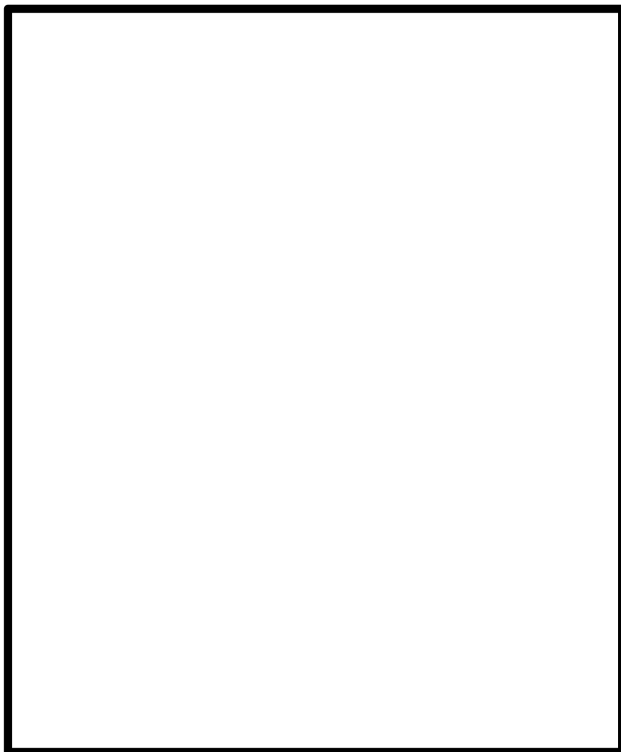
SCORING RUBRIC		
Category	Points Possible	Points Earned
Content ➤ Comic explains how plants make their own food in a two-stage process called photosynthesis.	10	
Illustrated Scenes ➤ Each comic panel has colored, somewhat detailed illustrations that match the scene.	10	
Dialogue & Vocabulary ➤ The story includes dialogue, within comic bubbles, that is well matched to the storyline. The comic includes all of the required vocabulary words.	10	
Spelling & Grammar ➤ No spelling, punctuation, or grammar errors are present.	5	
Clarity & Neatness ➤ The comic is legible and easy to understand. Labels are included where appropriate.	5	
Creativity ➤ The comic is not purely informational. The story is told in a comic-style fashion and combines words and illustrations to create a fun, but informative, story.	10	
SCORE TOTAL: (Out of 50 Points Possible)		
PERCENTAGE:		
LETTER GRADE:		

PHOTOSYNTHESIS – COMIC FOLDABLE

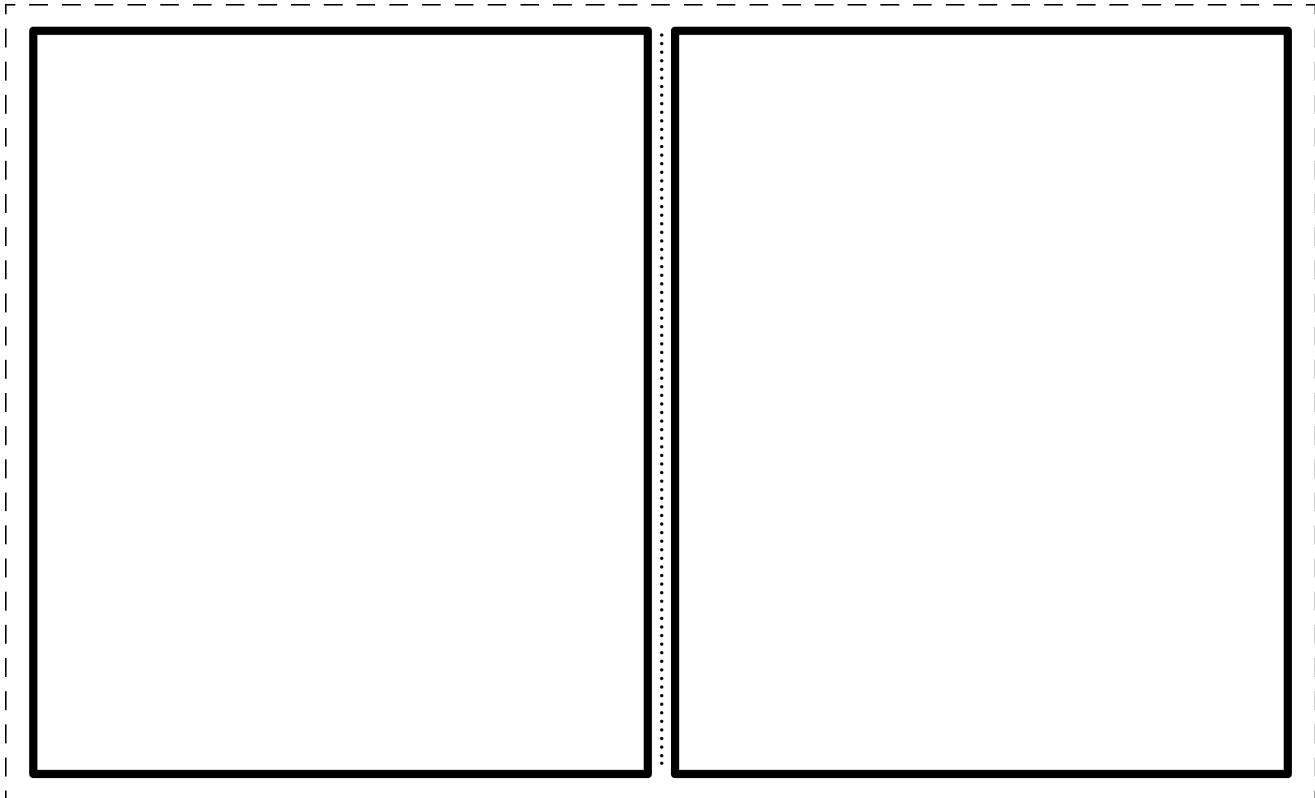
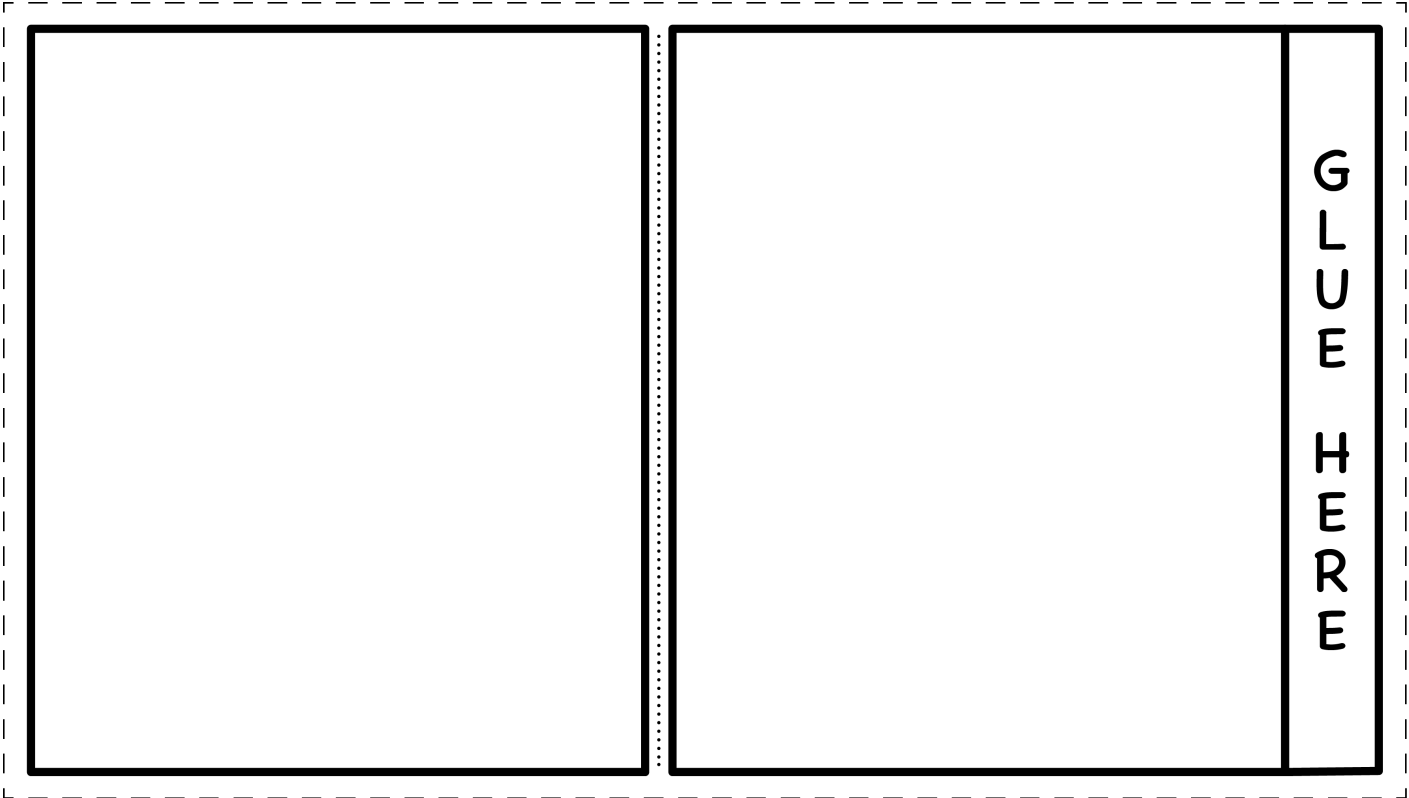
Foldable Directions: Cut out the comic strip along the dashed lines; fold on the dotted lines accordion style. Glue the sections together at the designated box. Once glue has dried, fold in between the glued sections to create accordion style folds for the entire comic strip.



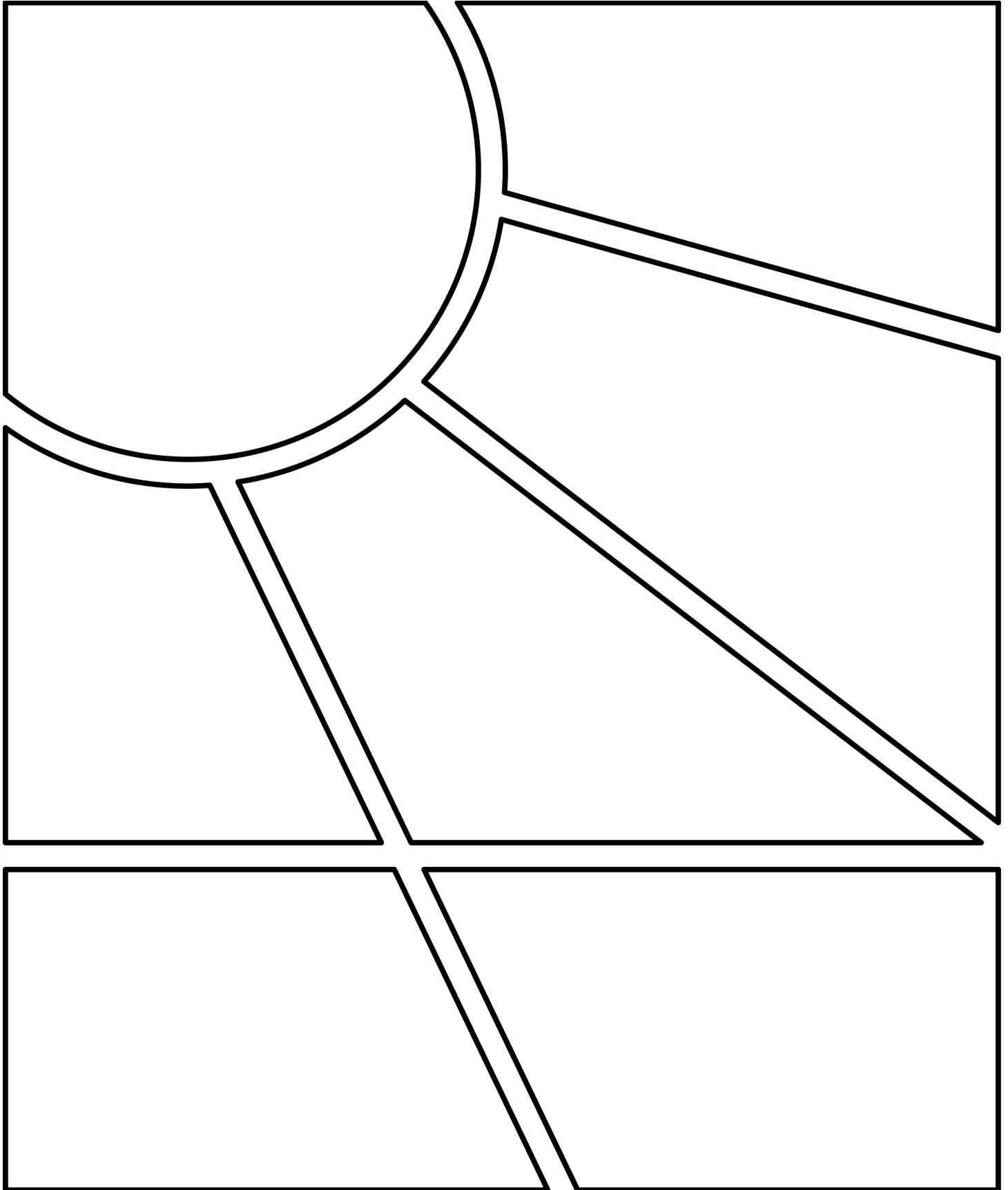
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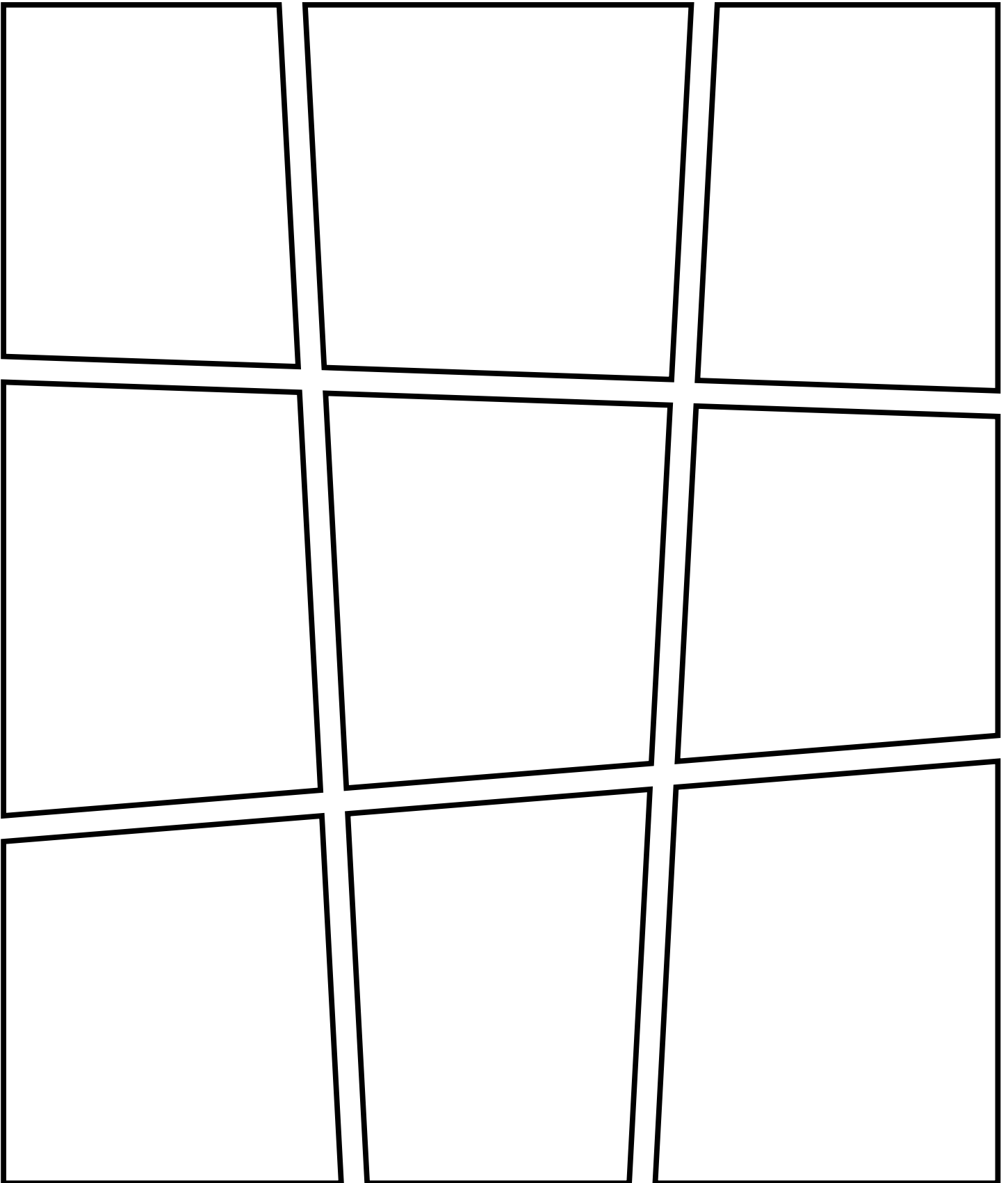


PHOTOSYNTHESIS COMIC



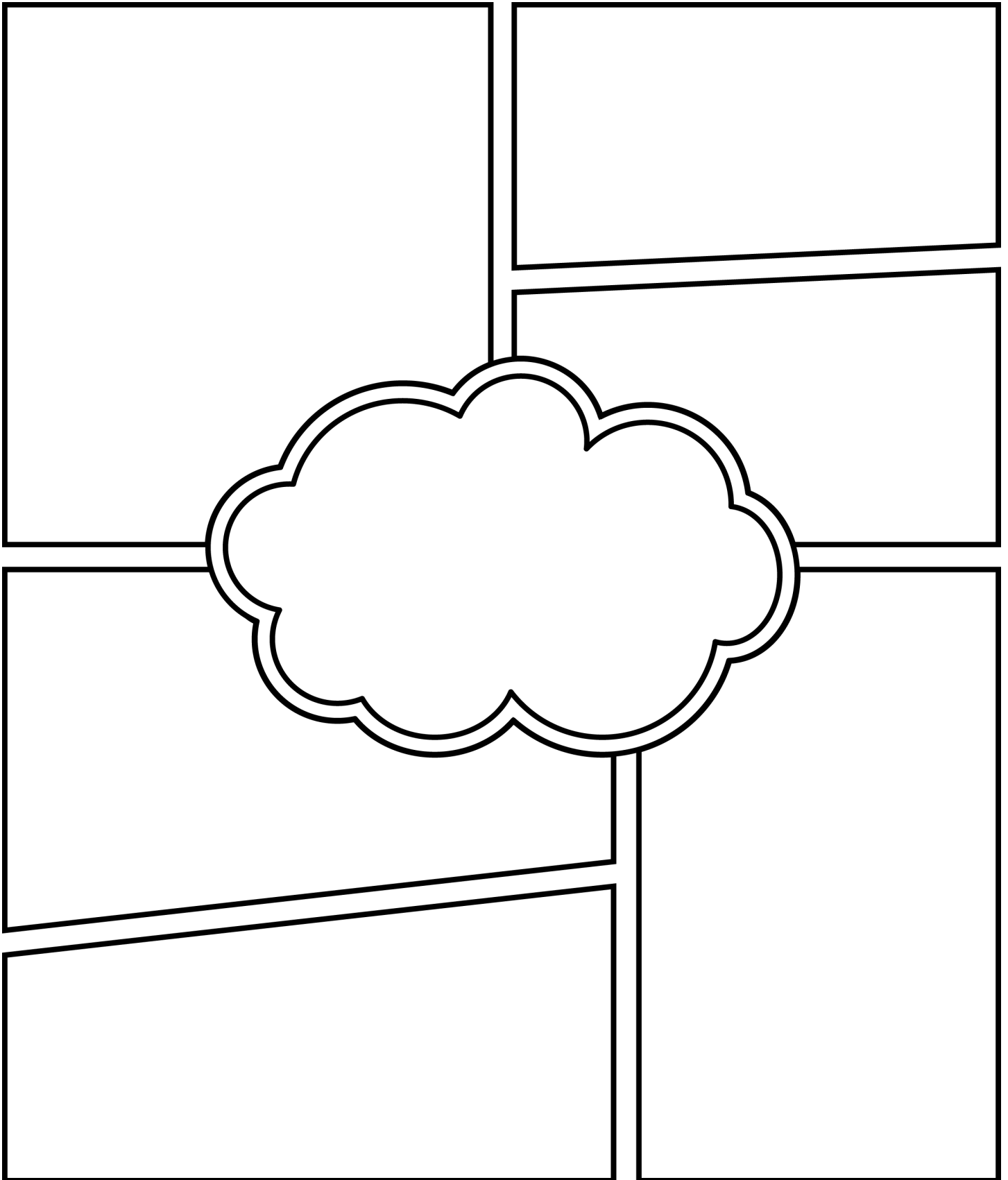
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PHOTOSYNTHESIS COMIC



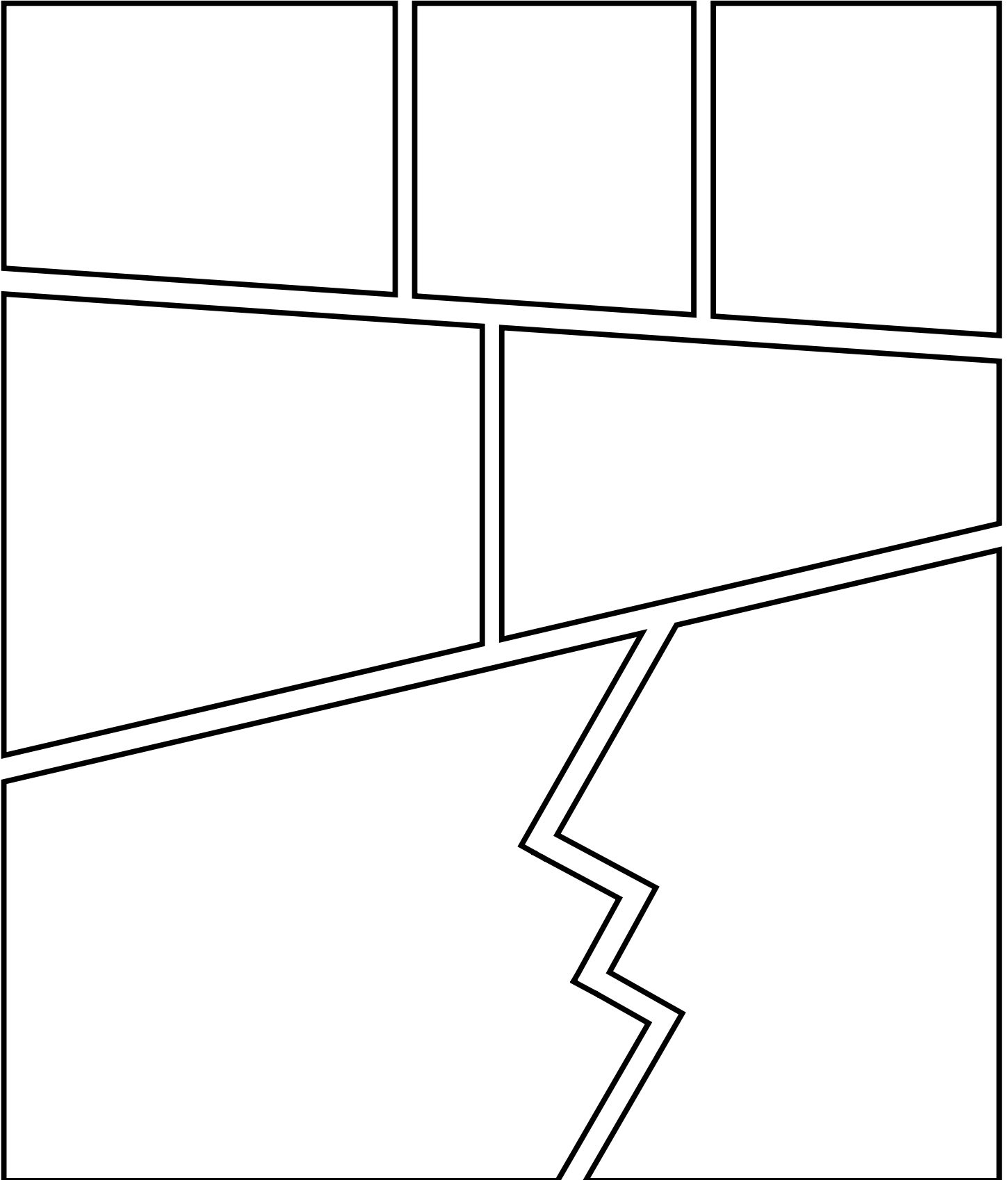
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PHOTOSYNTHESIS COMIC



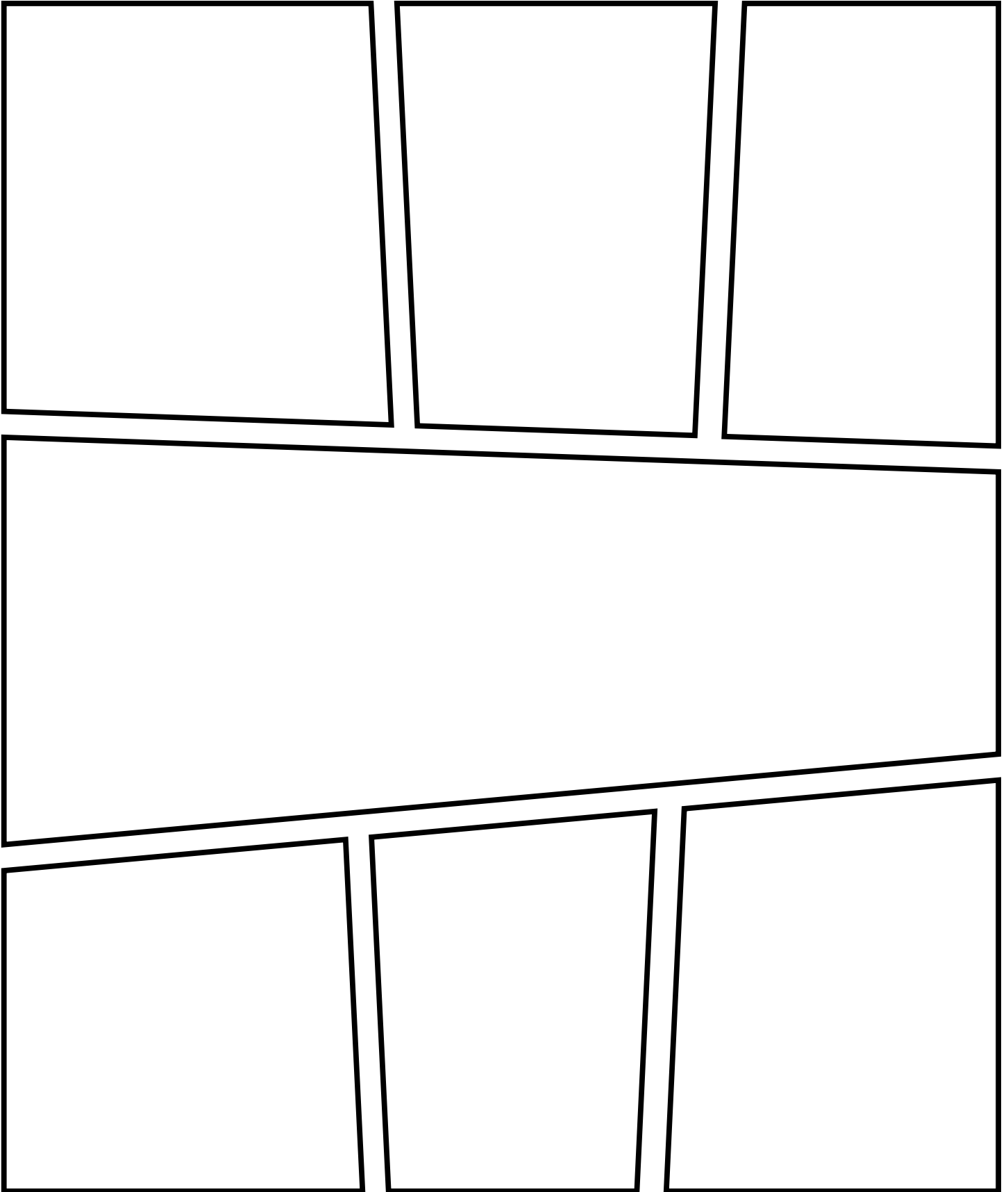
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PHOTOSYNTHESIS COMIC



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PHOTOSYNTHESIS COMIC STRIP



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