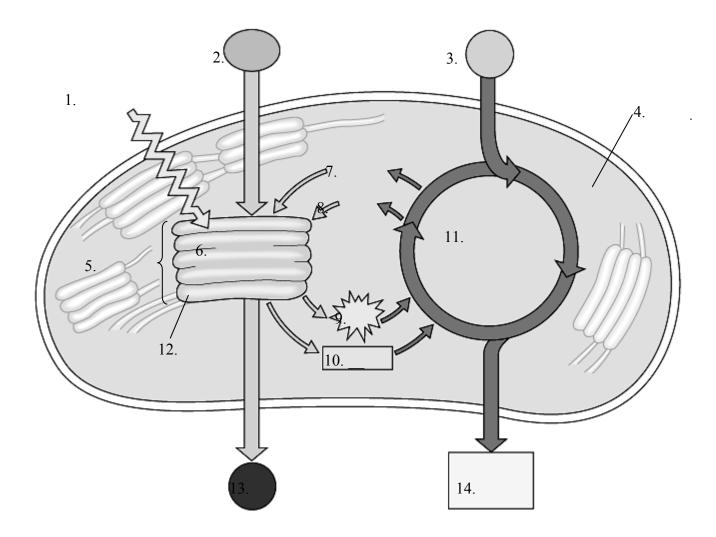
## Photosynthesis Review Sheet

- 1. What is the overall reaction for photosynthesis?
- 2. How does this compare to the overall reaction for cellular respiration?
- 3. Where does the energy for photosynthesis come from?
- 4. What plant pigments are involved in photosynthesis?
- 5. Explain why chlorophyll appears green to us in terms of what happens to different wavelengths of light that strike a chlorophyll molecule.
- 6. How does the amount of energy in light change as the wavelength increases?
- 7. Which colors of light are most effective for photosynthesis? Explain why.
- 8. In what organelle of a plant cell does photosynthesis take place?
- 9. What are the two stages of photosynthesis?
- 10. In which part of the chloroplast does each stage occur?
- 11. What happens to water molecules in the light reactions?
- 12. What photosynthesis waste product is formed in the light reactions?
- 13. What two products of the light reactions are used up in the Calvin cycle?
- 14. What happens to carbon dioxide molecules in the Calvin cycle reactions?
- 15. How can cells store the sugar that is produced in photosynthesis?

16. Label the diagram below to summarize the two stages of photosynthesis. Use the word bank below the diagram to fill in the blanks.



## Word list:

thylakoids	Calvin cycle	$CO_2$	$NADP^+$
granum	light	NADPH	$O_2$
stroma	$H_2O$	ATP	ADP + P
light reactions	sugar		