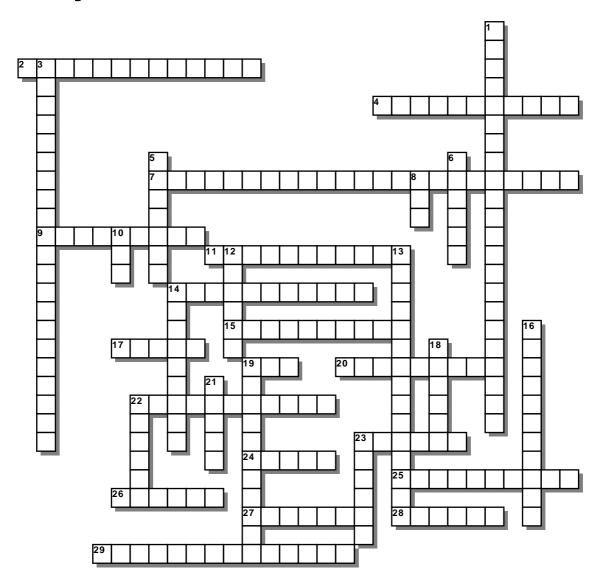
Name:	

Date: \_\_\_\_\_

## **Photosynthesis**



## **Across**

- 2 enters the Calvin cycle from the atmosphere
- 4 obtains energy by consuming plants or animals
- 7 occur in the thylakoid membrane
- 9 sac-like photosynthetic membrane
- 11 occurs in the stroma of a chloroplast
- 14 cluster of chlorophyll and other pigments
- 15 determined that trees gain most of their mass from water
- 17 determined that plants convert light energy to chemical energy
- 19 basic energy source of all cells
- 20 makes its own food
- 22 light absorbing pigment in chloroplasts
- 23 region outside the thylakoid membranes
- 24 electron carrier in the light-dependent reactions of photosynthesis
- 25 determined that plants need sunlight to produce oxygen
- 26 the ability to do work
- 27 a component of ATP
- 28 a component of ATP
- 29 factor affecting the rate of photosynthesis

## Down

- 1 a series of electron carriers
- 3 ATP
- 5 product of the Calvin cycle
- 6 determined the process by which electrons are transferred
- 8 color of light absorbed by chorophyll
- 10 "partially filled battery"
- 12 type of transport that moves hydrogen ions into the inner thylakoid space
- 13 transports high energy electrons from chlorophyll to other molecules
- 14 determined that plants produce oxygen
- 16 factor affecting the rate of photosynthesis
- 18 a stack of thylakoids
- 19 binds ADP to a phosphate group as it spins
- 21 color of light reflected by chlorophyll
- 22 determined that carbon forms glucose
- 23 photosynthesis is a \_\_\_\_\_ of reactions