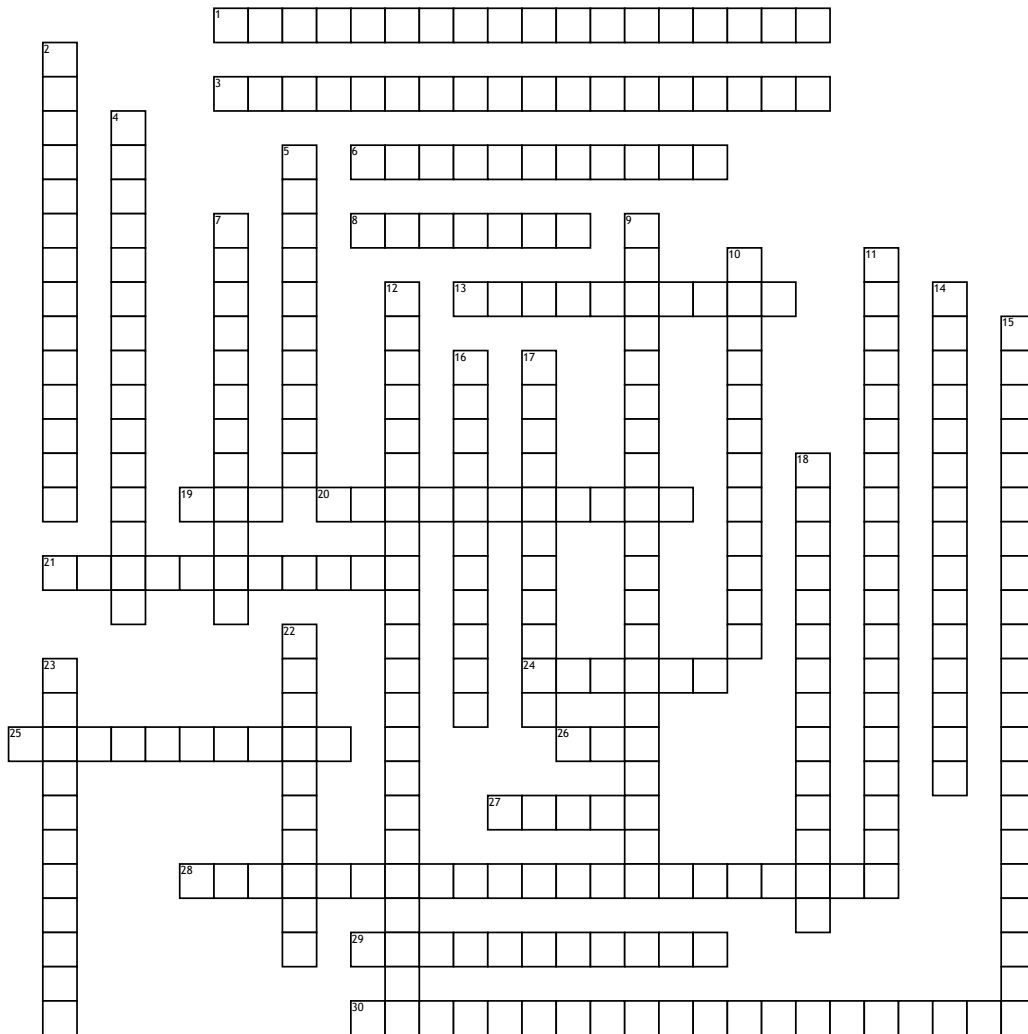


Name: _____

Date: _____

logans crossword project



Across

1. cellular respiration which requires oxygen
3. sequence of biochemical reactions catalysed by enzyme that occurs in all living cells
6. the green light absorbing pigment in the chloroplast
8. a natural compound that gives color to plants and animals
13. plant pigment responsible for yellow red and orange colors provides important health benefits
19. the form of cellular energy synthesized in the mitochondria by the process of cellular respiration
20. the mechanism in plants by which chlorophyll and other light absorbing pigments absorb energy from sunlight
21. the membrane found where photosynthesis occurs
24. the area of the chloroplast where the Calvin cycle takes place
25. the second stage of cellular respiration that produces only 2 ATP
26. a lower energy molecule that can be converted to ATP by adding a phosphate group
27. the pores on the underside of a leaf that allow gas "CO₂ and O₂" exchange in plants

28. anaerobic respiration performed by bacteria and muscle cells

29. also known as light independent reactions and the second phase of photosynthesis

30. process that does not require oxygen to occur

Down

2. the process of converting carbon dioxide "CO₂" from the atmosphere into carbohydrates like glucose by photosynthesis
4. another name for Krebs cycle
5. the anaerobic stage of cellular respiration that occurs in the cytoplasm
7. another name for anaerobic respiration
9. a lower energy molecule that can be converted to ATP added by phosphate group
10. the membrane found organelle where cellular respiration takes place
11. The chemical reaction in which glucose is converted to ATP in the mitochondria
12. the third stage of cellular respiration when most "32" ATP molecules are produced

14. any pigment in plant leaves other than chlorophyll that assist in the process of photosynthesis

15. anaerobic respiration performed by bacterial and fungal cells

16. the movement of hydrogen ions "H⁺" across a semipermeable membrane during cellular respiration or photosynthesis to generate adenosine triphosphate "ATP"
17. the enzyme that adds a phosphate group to ADP to make ATP

18. chemical reactions that convert radiant light energy into chemical energy stored as glucose

22. site where O₂ is produced in the chloroplast

23. the molecule glucose is converted to during glycolysis

Word Bank

carotenoid	biochemical pathway	adenosine diphosphate	chlorophyll	cellular respiration
ATP synthase	aerobic respiration	Calvin cycle	accessory pigment	ATP
citric acid cycle	thylakoids	photosynthesis	electron transport chain	fermentation
anaerobic respiration	glycolysis	stoma	mitochondria	photosystem
pyruvic acid	carbon fixation	lactic acid fermentation	chloroplast	chemiosmosis
stroma	pigment	Krebs cycle	ADP	alcoholic fermentation