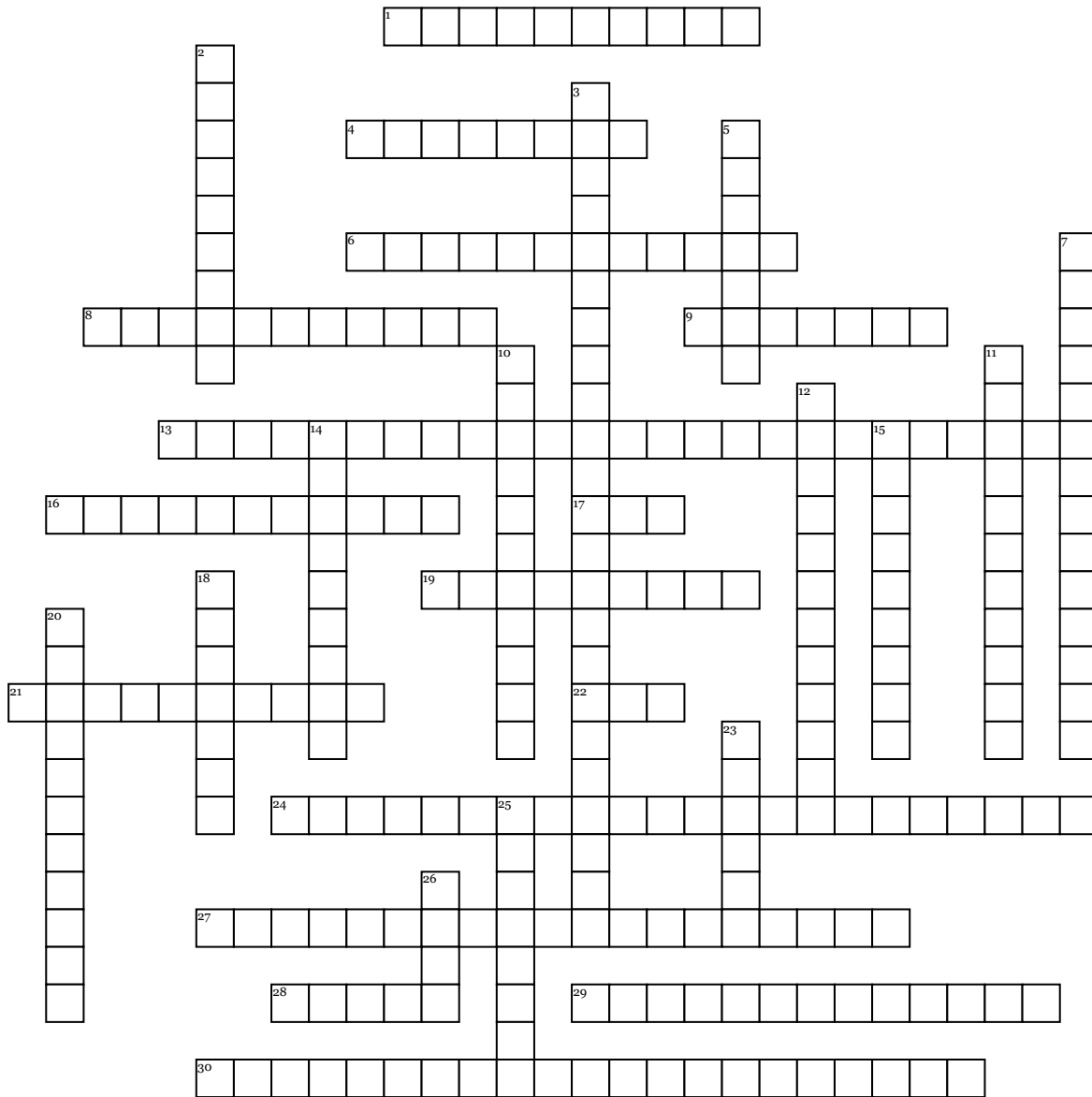


# nathans crossword



**Across**

- 1. pyruvic acid is broken down into carbon dioxide in a series of energy extracting reactions
- 4. process that doesnt require oxygen
- 6. the cell releases energy in the absence of oxygen
- 8. get energy from food it eats
- 9. light absorbing molecule
- 13. reactions that dont need light
- 16. rections of photosynthesis in which energy from ATP and NADP is used ot build high energy compounds
- 17. uses high energy electrons from the krebs cycle to convert ADP into ATP
- 19. makes thier own food
- 21. first step in releasing energy of glucose, in which a molecule of glucose is broken into 2

- 22. chemical compounds that living things use t store and release energy
  - 24. produced when your body cannot produce enough oxygen
  - 27. releases energy by breaking down glucose and other foor molecules in the presence of oxygen
  - 28. one of the carrier molecules that transfers high energy electrons from chlorophyll
  - 29. the krebs cycle and ETC take place here
  - 30. produces carbon dioxide and alcohol
- Down**
- 2. makes protiens
  - 3. reactins that require light
  - 5. ammount of energy needed to raise the temp of 1 grsin of water by 1 degree C

- 7. plants use light to convert water into oxygen
- 10. large protien that binds ADP phosphates together
- 11. light collecting units of the chloroplast
- 12. controls what enters and leaves the cell
- 14. saclike photosynthetic membranes found in chloroplasts
- 15. glycolysis takes place here
- 18. control center of the cell
- 20. captures light and energy
- 23. opening in the bottom of a leaf that allows carbon bioxide and oxygen to diffuse in and out to other molecules
- 25. does not require oxygen
- 26. electron carrier involved in glycolysis