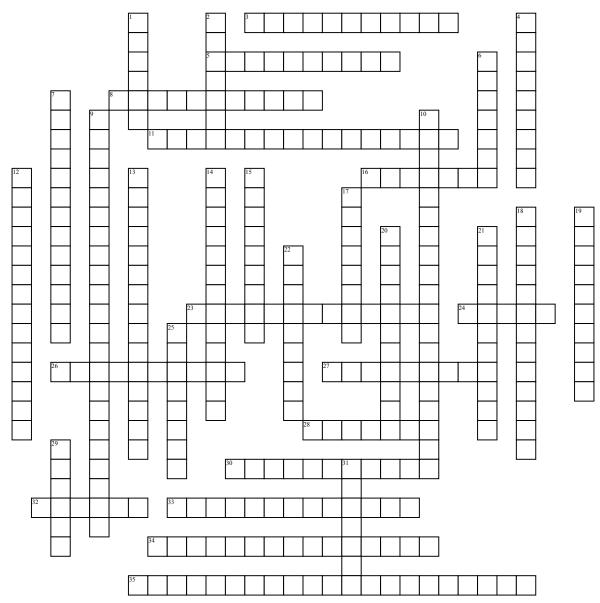
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Plant Physiology



Across

- 3. transformation of light energy into chemical energy via losing of electron from chlorophyll absorption to electron transfer chain
- 5. is a form of Active Transport
- 8. derives food from other organisms
- 11. surrounds the phloem and xylem
- **16.** ion that is used for polarized cell growth Ex: Rot hair growth
- 23. has big lipid tail that keeps it in the membrane and takes electron from PSII to cytochrome
- 24. moves minerals and water from roots to leaves
- 26. A protein that helps move ions against Concentration gradient
- 27. makes their own food from ions and simple
- 28. has hydrophobic barrier and exists on leaves to prevent water loss
- **30.** is the wasteful reaction takes 5C --> 5C
- 32. is the site of the Calvin Cycle in Chloroplast

- 33. is the useful reaction takes 5C --> 6C
- 34. Phloem and Xylem are these
- 35. takes place in Chloroplast ,Peroxisome, and Mitochondria and back again

- 1. moves sugars from leaves to roots
- 2. layer of wood that contains vascular living tissue that moves water to leaves
- 4. Protein that helps water move in/out of plasma membrane
- 6. can form secondary xylem and phloem as plant matures in growth
- 7. orientation of this is kept up w/ help of Calcium gradient
- 9. main goal is to create NADPH and ATP
- 10. are outside proteins that protect the cell
- 12. provides mechanical stability of non-lignified plant tissues by adding force to cell wall
- 13. is the main goal of Calvin Cycle

- 14. Cells in leaves that do a lot of photosynthesis processes
- 15. localized in cellular membrane and made of
- B1-4 Glucose units
- 17. water conducting and supportive pt. of Xylem that are long and hardened w/ lignin
- 18. Reduces the ability of cell wall to stretch by crosslinking cell microfibrils
- 19. a protein that accepts electrons from Plastoquinone and releases electrons to Plastocyanin
- 20. interaction that avoids water and affects conformation of cell
- 21. moves protons across thylakoid membrane
- 22. the membrane of the large vacuole
- 25. structural support of tree
- 29. fills space between cellulose microfibrils and prevents cell wall compression
- 31. complex near the edge of photosystem that absorbs photons of light by Chlorophyll and makes way to core complex the remaining energy