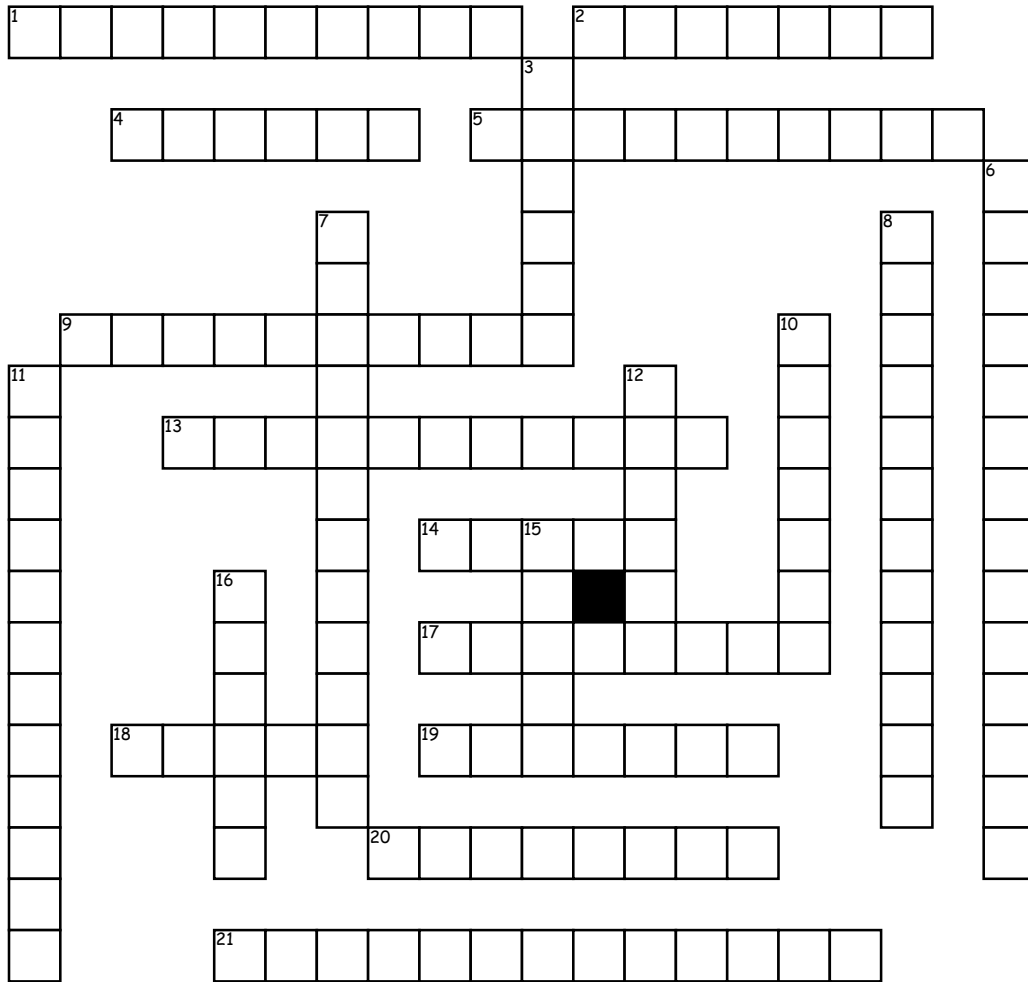


Plant Crossword by Quincy Akujor



Across

1. Features and characteristics of an organism that help it to survive in its environment
2. A biological phenomenon occurring in a plant in response to an environmental stimulus
4. More accurate description of cactus leaves
5. The growth of the parts of plants in response to the force of gravity. The upward growth of plant shoots is an instance of negative geotropism; the downward growth of roots is positive geotropism
9. Fleshy plants that retain a lot of water
13. A pigment in chloroplasts that does not absorb light in around the green section of the spectrum
14. A type of plant hormone that have an important role in the coordination of many growth processes

17. Vertically elongated plant cells located in leaves right below the epidermis and cuticle
18. Anchors the plant into the ground and obtains water
19. The passing of solvent molecules through a semi-permeable membrane from a less concentrated solution into a more concentrated one
20. A plant that is characterized by the presence of conducting tissue
21. Process by which moisture is carried through plants from roots to small pores on the underside of leaves, where it changes to vapor and is released to the atmosphere

Down

3. Where photosynthesis occurs
6. $6\text{CO}_2 + 6\text{H}_2\text{O} + \text{light energy} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$

7. The directional growth of a plant in response to SUNlight
8. A plant's growth response in which the direction of growth is determined by a stimulus or gradient in water concentration
10. The protective and waxy or hard layer covering the epidermis of a plant
11. The orientation of a plant or other organism in response to light, either towards the source of light (positive phototropism) or away from it (negative phototropism)
12. Mainly multicellular & predominantly photosynthetic eukaryotes of the kingdom "___ _ _ _ _ ae"
15. Transports water and nutrients in one direction
16. Two-way vessel transporting sugars

Word Bank

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|------------|------------|----------------|--------------|---------------|------------|
| Leaves | Vascular | Auxin | Hydrotropism | Transpiration | Adaptation |
| Plants | Roots | Heliotropism | Cuticle | Phototropism | Spines |
| Geotropism | Succulents | Palisade | Xylem | Chlorophyll | Phloem |
| Tropism | Osmosis | Photosynthesis | | | |