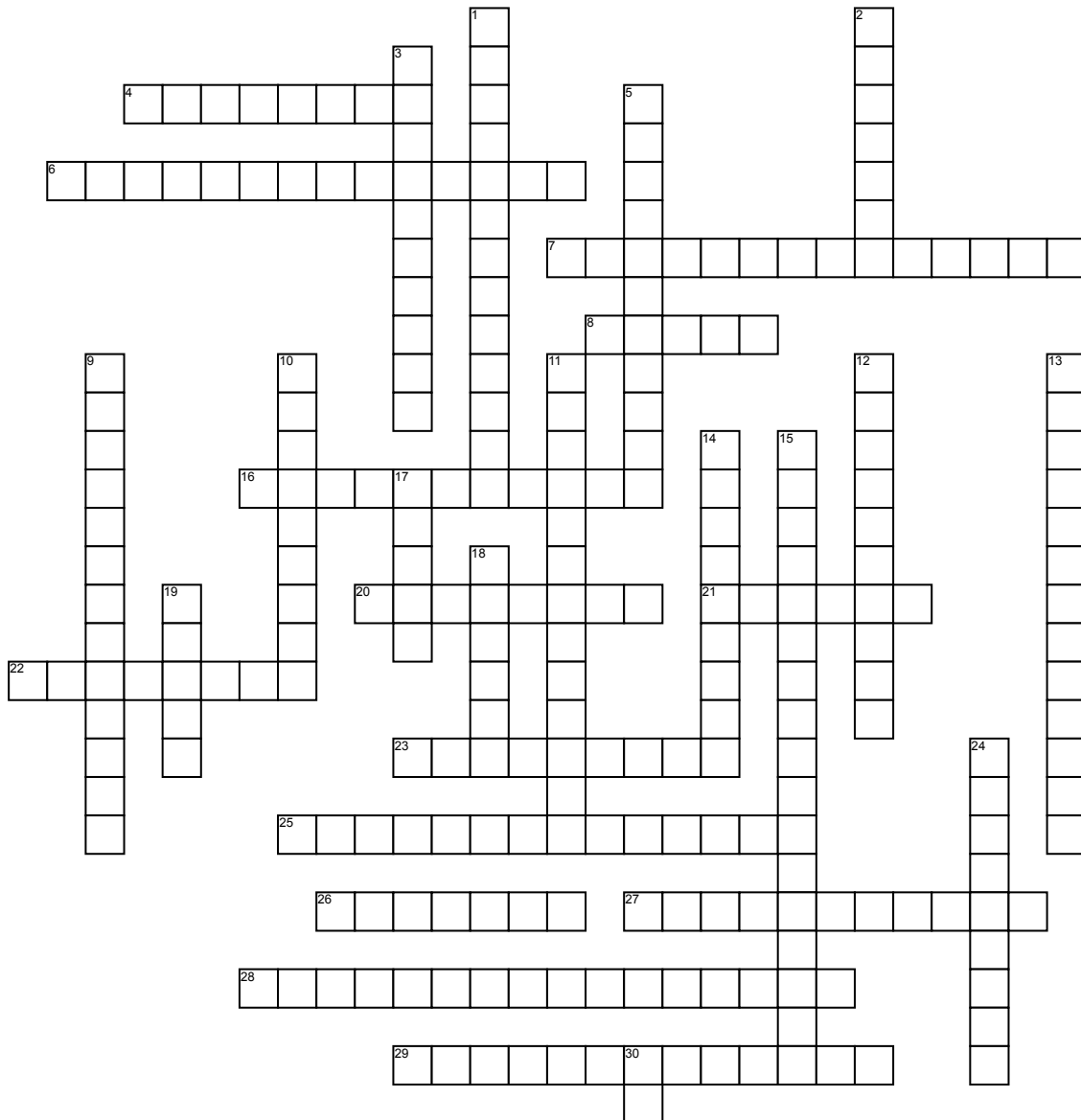


HYDROPONICS



Across

4. Having a pH of more than 7.0
 6. Point specific irrigation accomplished through the use of piping and tubing with emitters located at strategic watering points
 7. The simple sugars that result from photosynthesis
 8. The Greek word for work
 16. Nutrients that plants require in large amounts
 20. Expose the plant root to the circulation of air
 21. Having a pH less than 4.0
 22. The amount of water vapor present in the atmosphere
 23. A substance that provides nourishment
 25. The process by which chlorophyll in plant leaves converts sun and nutrients into photosynthates

26. Molecules or compounds that contain carbon. Ordinarily carbonates are not recognized as being organic
 27. The green pigment found in plant leaves and stems
 28. A mixture of water and nutrient solution in a hydroponic system
 29. The colors within a light source

Down

1. The "soil" used to grow the plant which may or may not contain actual soil. Usually composed of a mixture of peat moss, perlite, sand, or other materials to provide support and moisture retention.
 2. A fundamental substance that comprises matter
 3. The series of processes a plant goes through to convert food into energy
 5. Growing plants without soil
 9. Nutrients that plants require in only trace or small amounts

10. The brightness of a light source
 11. The movement of water from the plant roots out through the leaves
 12. A material added to soil to increase its fertility
 13. Solid components of soils resulting from the partial decomposition of dead plant and animal remains
 14. A floating, Mexican raft used for hydroponics on marshes
 15. A container that holds the nutrient solution in a hydroponic system
 17. The amount of light falling on a surface on foot away from a candle
 18. A portable platform
 19. The Greek word for water
 24. A special fluorescent light that provides plants with the proper type and amount of light for growth
 30. An index of the acidity or alkalinity of a substance