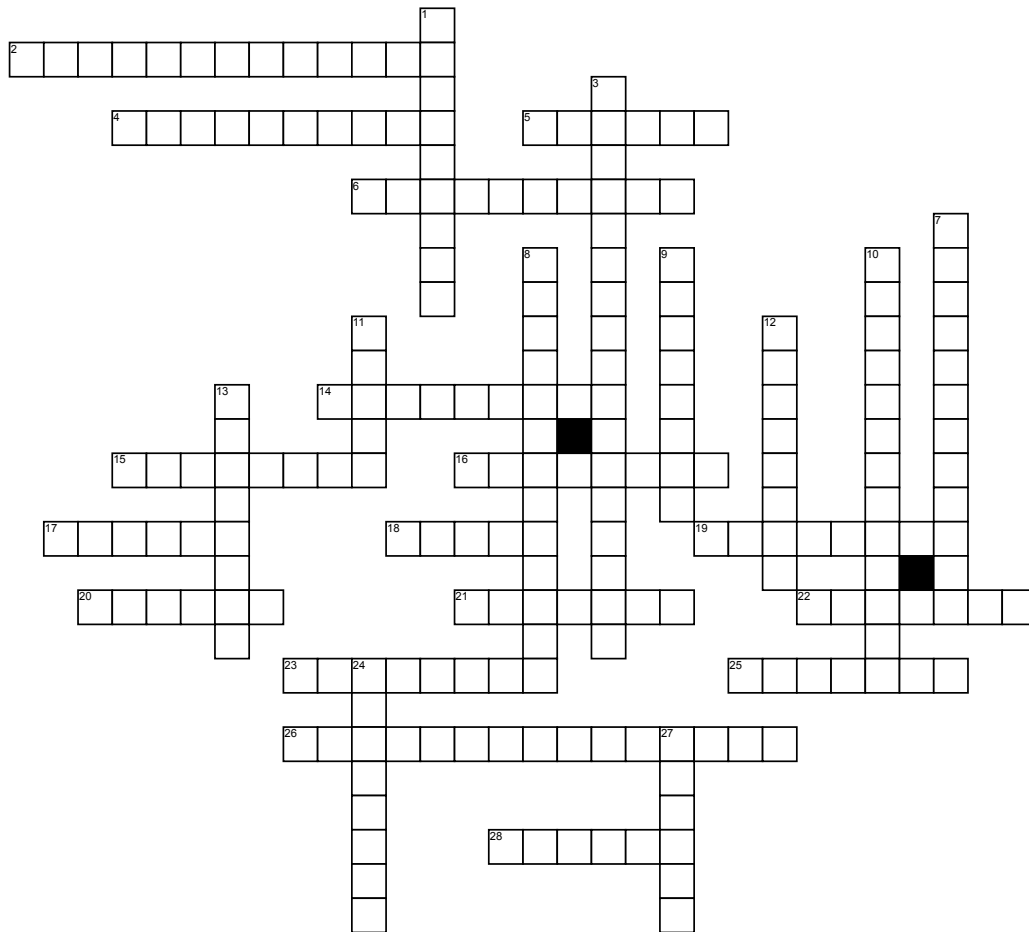


# Glucose



**Across**

- 2. The product of respiration without oxygen (only glucose) which makes bread rise. (6,7)
- 4. This hormone causes glucose to be delivered to the brain and muscles quickly
- 5. This breaks down in the mouth and small intestine into glucose
- 6. Made by plants from glucose, used to make proteins (5,5)
- 14. A sugar made from glucose, used to make cell walls
- 15. The fungus that can be grown in glucose syrup to create a vegetarian protein source
- 16. An insoluble molecule that is the method of storing glucose in animals
- 17. A tissue that needs lots of glucose to contract to cause movement
- 18. The organ where lactic acid is converted to glucose

- 19. A plant cell that needs lots of glucose for the movement of mineral ions into the plant (4,4)
- 20. A plant tissue that need glucose to transport glucose around the plant
- 21. The hormone that lowers blood glucose levels.
- 22. The group of species where anaerobic respiration converts glucose into lactic acid
- 23. The organ that controls blood glucose levels
- 25. The product of respiration without oxygen (only glucose) that can be used to make drinks
- 26. The method of transport that allows glucose to move from the small intestine to the blood (5,9)
- 28. Plants convert glucose into this. Another name for "Fats and Oils"

**Down**

- 1. The solution that is the test for glucose
- 3. The section of a leaf where glucose is produced (8,9)

- 7. The organelle that uses glucose for aerobic respiration
- 8. The group of enzymes that break down carbohydrates into glucose
- 9. The organism on a food chain that synthesises glucose
- 10. The process in which glucose is moved about a plant
- 11. A gamete that needs lots of glucose to swim to the egg
- 12. The hormone that raises blood glucose levels
- 13. A condition that causes high glucose levels due to an absence/defect of hormones to lower it
- 24. To convert glucose into protein, these mineral ions are also needed
- 27. The part of the blood that glucose is suspended in

**Word Bank**

- |                    |          |                  |               |               |
|--------------------|----------|------------------|---------------|---------------|
| Carbon Dioxide     | Glucagon | Sperm            | Phloem        | Insulin       |
| Liver              | Pancreas | Ethanol          | Animals       | Mitochondria  |
| Palisade Mesophyll | Glycogen | Adrenaline       | Benedicts     | Translocation |
| Plasma             | Diabetes | Root hair        | Nitrates      | Muscle        |
| Amino acids        | Lipids   | Cellulose        | Carbohydrases | Starch        |
| Fusarium           | Producer | Active Transport |               |               |