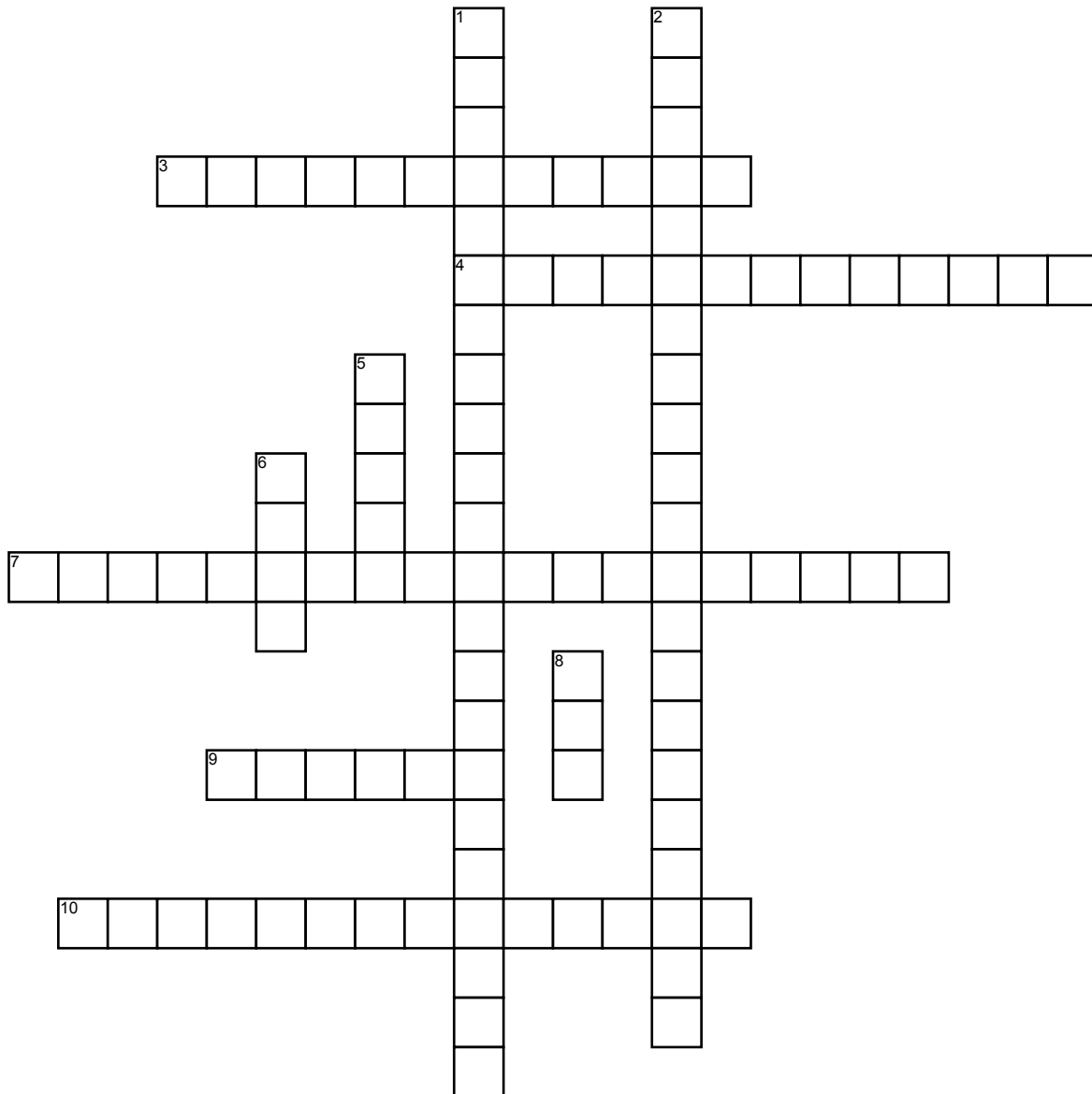


# Photosynthesis and cellular respiration



## Across

3. the chemical breakdown of a substance
4. a colorless, odorless gas produced by burning carbon and organic compounds and by respiration
7. a set of metabolic reactions and processes that take place in the cells of organisms to convert biochemical energy from nutrients into adenosine triphosphate, and then release waste products.
9. a colorless, odorless reactive gas, the chemical element of atomic number 8 and the life-supporting component of the air.
10. the process by which green plants and some other organisms use sunlight to synthesize foods from carbon dioxide and water.

## Down

1. a metabolic process by which glucose and other six-carbon sugars are converted into cellular energy and the metabolite lactate, which is lactic acid in solution
2. a biological process which converts sugars
5. any of the class of soluble, crystalline, typically sweet-tasting carbohydrates found in living tissues and exemplified by glucose and sucrose.
6. the smallest structural and functional unit of an organism, typically microscopic and consisting of cytoplasm and a nucleus enclosed in a membrane.
8. Water