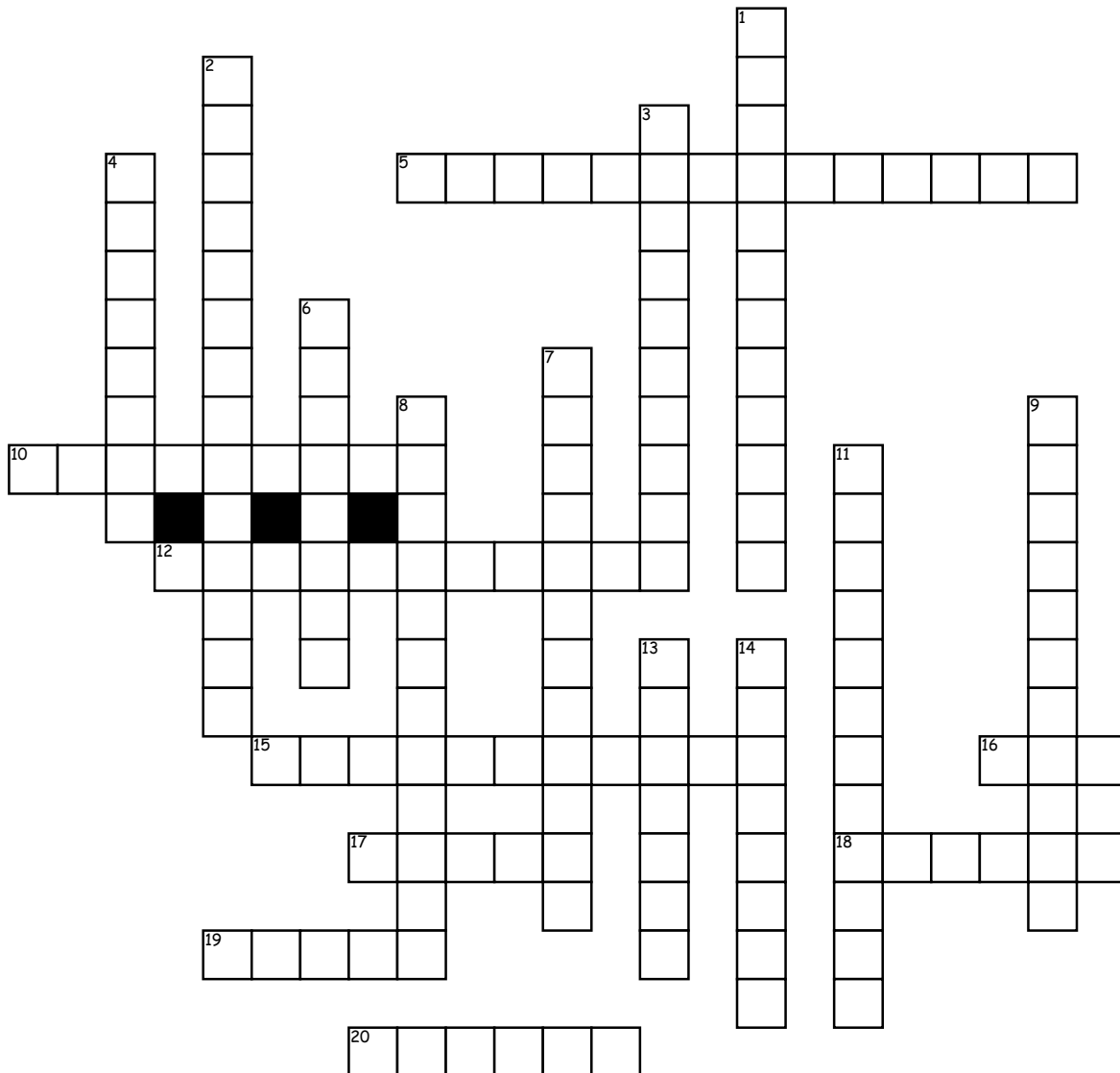


Photosynthesis/Respiration & Chromatography



Across

- 5. The process of separating a mixture as different components move at different rates through a solvent
- 10. Organisms that use light energy to make their own food
- 12. Organisms that obtain energy by eating other living organisms
- 15. Family of pigments that reflect red, orange, and yellow light
- 16. Used by cells to store and release energy; cell currency
- 17. Leaves are green because they reflect _____ light
- 18. Xanthophyll reflects _____ color light

- 19. We used a triangular _____ to show that white light is composed of many different colors of light

20. What color is represented by the letter I in ROYGBIV?

Down

- 1. Most abundant pigment
- 2. Process used by plants and other autotrophs to capture sunlight and power reactions to produce sugar
- 3. All colors in the visible light spectrum have a certain _____
- 4. Photosynthetic _____ capture sunlight inside of chloroplasts to power photosynthesis

- 6. The pigment that makes carrots orange
- 7. Family of pigments that reflect red, blue, and violet light
- 8. In the lab, you produced a _____ to show the separation of pigments in your mixture
- 9. Process that releases energy by breaking down sugar/food molecules using oxygen
- 11. Similar to chlorophyll a
- 13. White light is composed of all colors of the _____
- 14. Light used for photosynthesis is not reflected, but _____