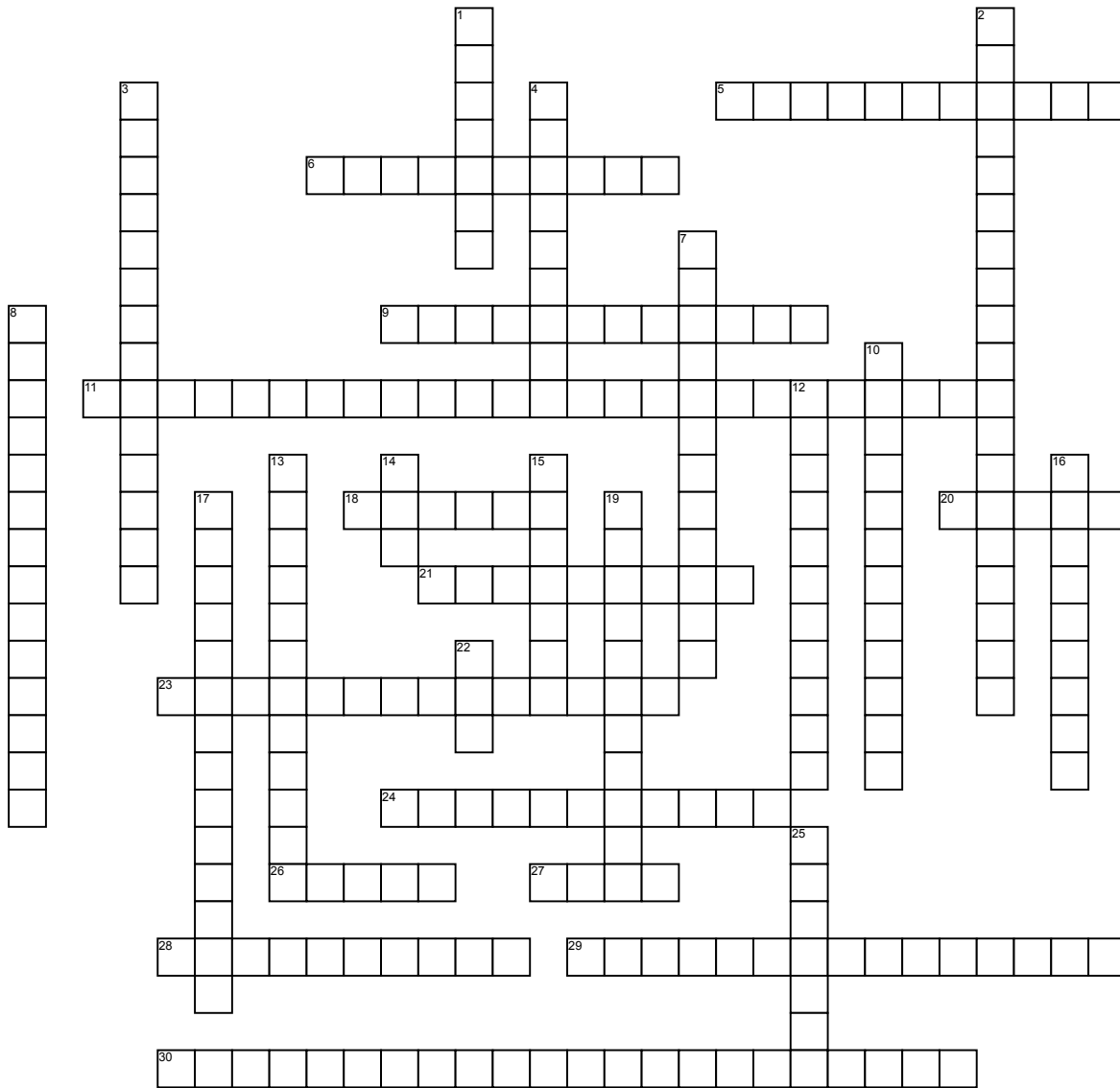


# Performance Assessment Part A



## **Across**

5. organelle where photosynthesis occurs  
 6. first major step in cellular respiration, breaks glucose into two pyruvic acid  
 9. clusters of chlorophyll, on the thylakoid membrane  
 11. take place in the stroma, uses carbon dioxide and makes the sugar  
 18. Space inside chloroplast  
 20. Stack of thylakoids  
 21. organisms that use an energy source, such as the sun, and make sugars  
 23. process of converting carbon dioxide and water into sugar using energy from the sun  
 24. another name for light-independent reactions  
 26. electron carrier used in photosynthesis

27. electron carrier used in cellular respiration  
 28. series of reactions that pyruvic acid enters making ATP and carbon dioxide  
 29. a chemical that carries high energy electrons  
 30. take place on the thylakoid membrane, uses water and gives off oxygen, requires light

## **Down**

1. small sugar made in photosynthesis  
 2. pathway of breaking down sugar for energy using oxygen  
 3. type of fermentation that is used in muscle cells  
 4. sac-like structures in the chloroplast  
 7. organisms that must "eat" sugars  
 8. another way that autotrophs can produce their own food

10. organelle where cellular respiration occurs  
 12. green pigment that traps light energy  
 13. a pathway of breaking down sugar for energy not using oxygen  
 14. chemical that stores and releases energy for the cell  
 15. measurement, amount of energy  
 16. no oxygen required  
 17. type of fermentation that is used in yeast and bacteria  
 19. the 2 small molecules glucose is broken down into during glycolysis  
 22. a chain of proteins passing high energy electrons producing ATP and finally given to oxygen at the end of chain  
 25. in need of oxygen