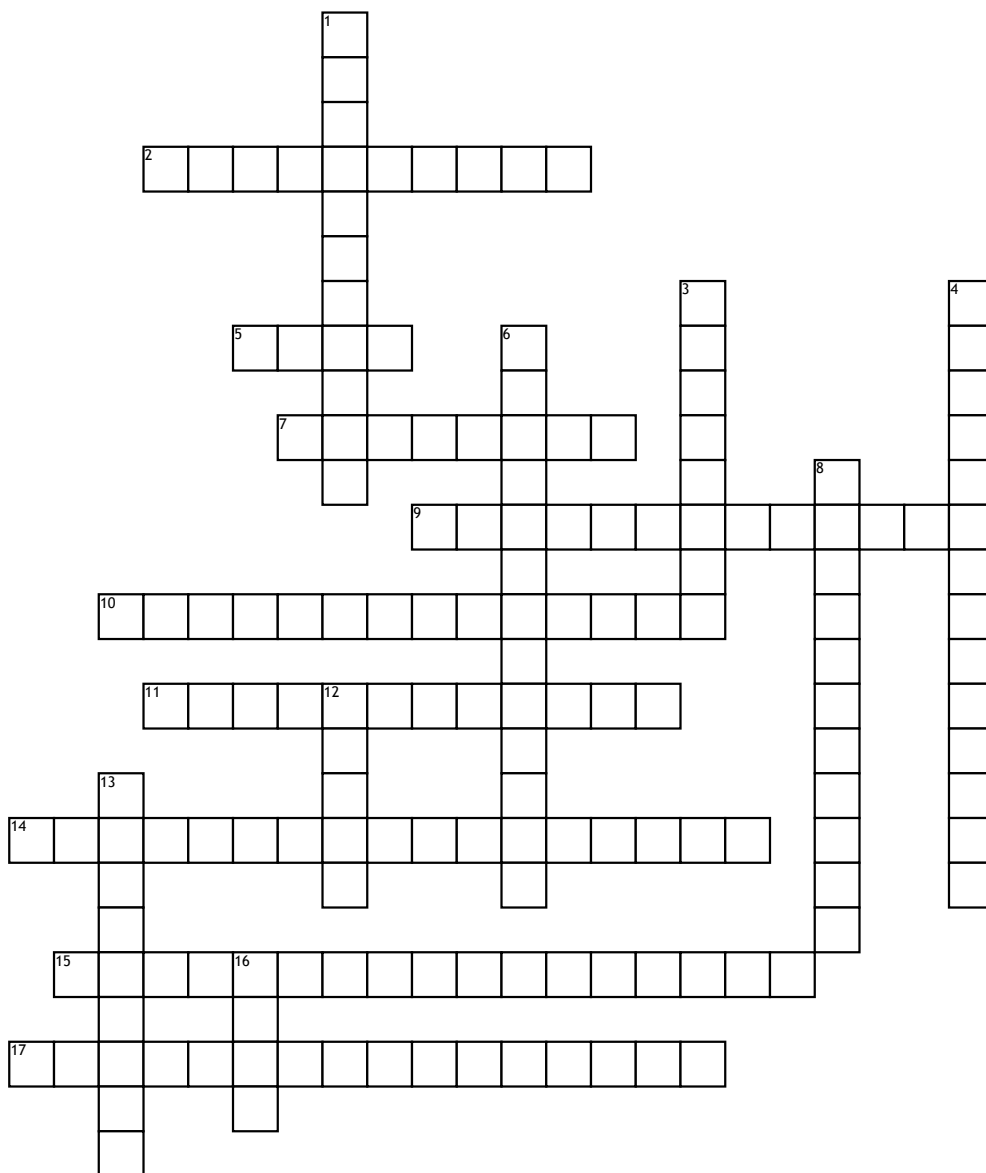


# Chapter 15



## Across

2. principle of buoyancy  
 5. force acting on a body in a fluid in a direction perpendicular to the fluid flow  
 7. resistance created by a pressure differential between the lead and rear sides of a body moving through a fluid  
 9. layer of fluid immediately adjacent to a body  
 10. force acting in the direction of a body's motion  
 11. resistance derived from friction between adjacent layers of fluid near a body moving through the fluid

14. unitless number that is an index of a body's ability to generate lift  
 15. unitless number that is an index of a body's ability to generate fluid resistance  
 17. velocity of a body with respect to the velocity of something else, such as surrounding fluid

## Down

1. characterized by smooth, parallel layers of fluid  
 3. resistance created by the generation of waves at the interface between two different fluids such as air and water

4. point at which the buoyant force acts  
 6. characterized by mixing of adjacent fluid layers  
 8. lift created by spin  
 12. substance that flows when subjected to shear stress  
 13. principle of inverse relationship between velocity and pressure  
 16. shape capable of generating lift in the presence of fluid flow