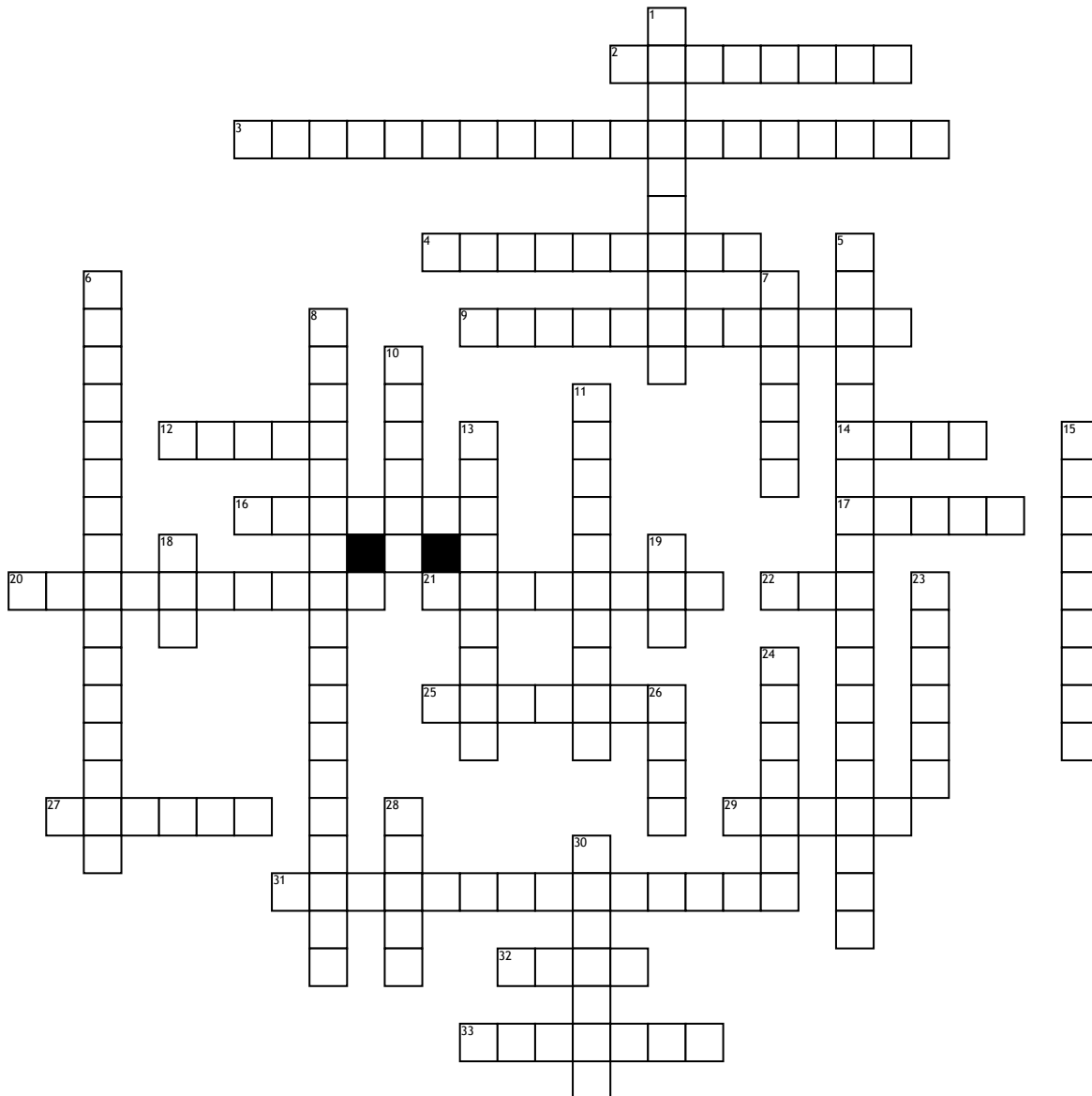


# Fluids



## Across

2. To increase the pressure, you could \_\_\_\_\_ the force.  
 3. Faster moving air creates low pressure. Slower moving air creates high pressure.  
 4. Decreasing the volume \_\_\_\_\_ the density.  
 9. The upward force on an object submerged in a liquid.  
 12. Things that are less dense will \_\_\_\_\_  
 14. The force of gravity depends on \_\_\_\_\_  
 16. Mass/Volume  
 17. Liquid pressure depends on the \_\_\_\_\_ of the object.  
 20. Airplanes and helicopters fly because of this principle.  
 21. To increase the pressure, you could \_\_\_\_\_ the area.  
 22. The state of matter that has no fixed shape or volume

25. Hydraulic lifts work because of this principle.  
 27. Liquids and gasses are considered to be this type of material  
 29. The state of matter that is rigid and has a fixed shape and volume.  
 31. Pressure felt because an object is submerged in a fluid.  
 32. Oil floats on water because oil is \_\_\_\_\_ dense than water.  
 33. The number of pounds on one square inch because of atmospheric pressure

## Down

1. Hydraulic lifts can turn a little force into a big force by \_\_\_\_\_ the surface area.  
 5. The buoyant force is equal to the weight of the water displaced.  
 6. The pressure on a fluid is distributed evenly through the whole fluid.  
 7. The buoyant force depends on \_\_\_\_\_  
 8. Fluids travel faster through a small area.

10. The state of matter that has a fixed volume, but no fixed shape  
 11. If the temperature of a gas increases, the volume will increase.  
 13. If the pressure on a gas is increased, the volume decreases.  
 15. Increasing the volume \_\_\_\_\_ the density.  
 18. The book of the Bible that mentions air having weight.  
 19. Pounds per square inch  
 23. Fish move up and down in the water by changing their \_\_\_\_\_, which changes their density.  
 24. What happens to astronauts when they go in space with no suit.  
 26. Things that are more dense will \_\_\_\_\_  
 28. For an object to float, the force of gravity and the buoyant force must be \_\_\_\_\_  
 30. Liquid pressure depends on the \_\_\_\_\_ of the liquid the object is in.