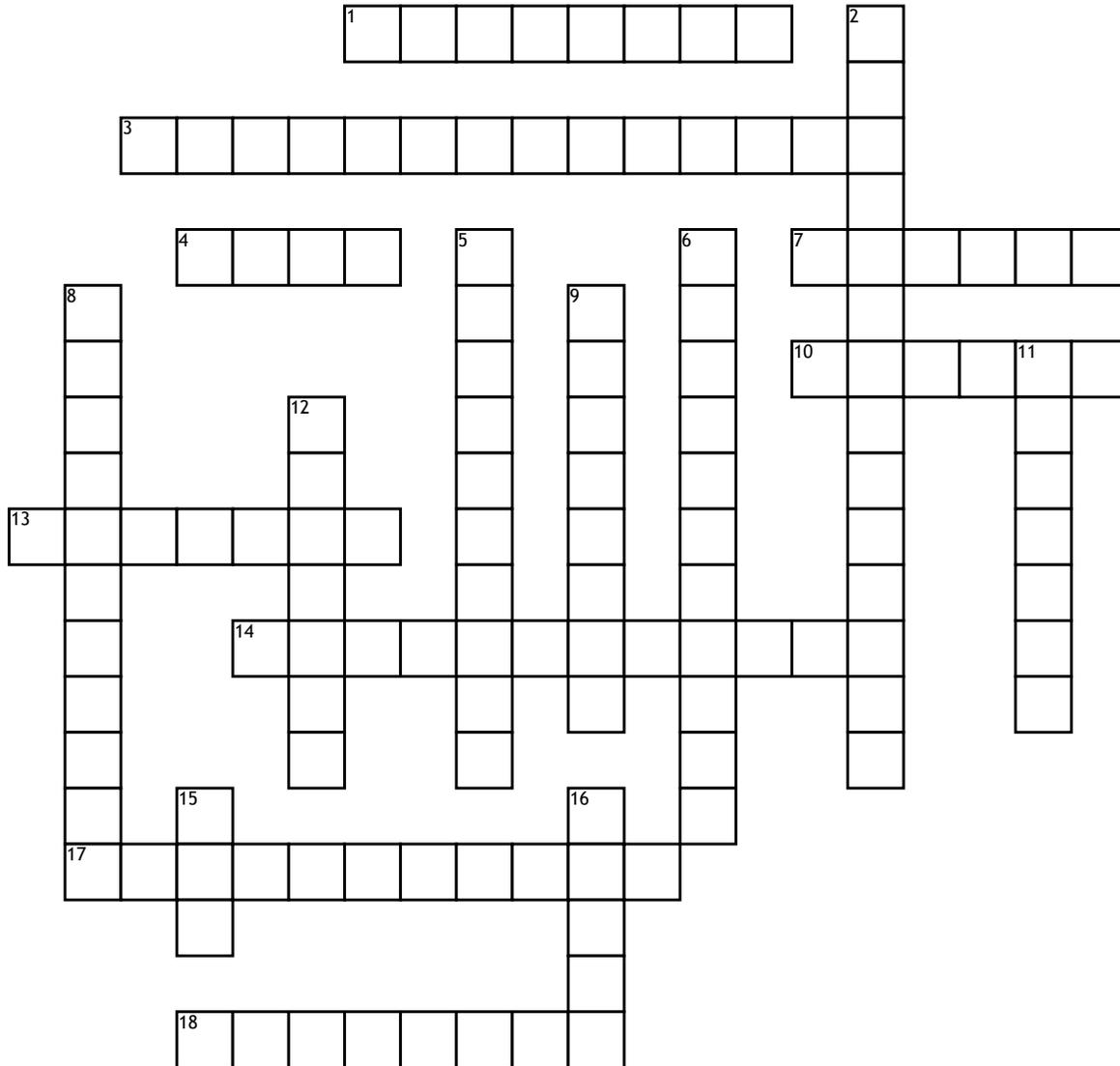


# Properties of Matter



## Across

1. Phase change of matter where a liquid changes to a solid  
 3. A change in which the substance is altered without changing its composition  
 4. The smallest particle of an element that retains all of its properties  
 7. Has definite volume but not a definite shape  
 10. Anything that has mass and takes up space  
 13. Phase change of matter where a solid changes to a liquid

14. Separation technique based on the boiling points of the different substances involved  
 17. Phase change where a liquid changes to a gas  
 18. A \_\_\_\_\_ is made up of two or more elements that are chemically combined.

## Down

2. Commonly referred to as a chemical reaction, where new substances are formed.  
 5. A technique that is used to separate a solid from a liquid

6. Process during which a solid changes directly to a gas

8. Transition of matter from one state to another  
 9. Forms when two or more atoms combine covalently  
 11. A pure substance that can not be separated  
 12. A physical property of matter, the amount of mass per unit of volume  
 15. Has neither a definite shape or volume  
 16. Has a definite shape and volume