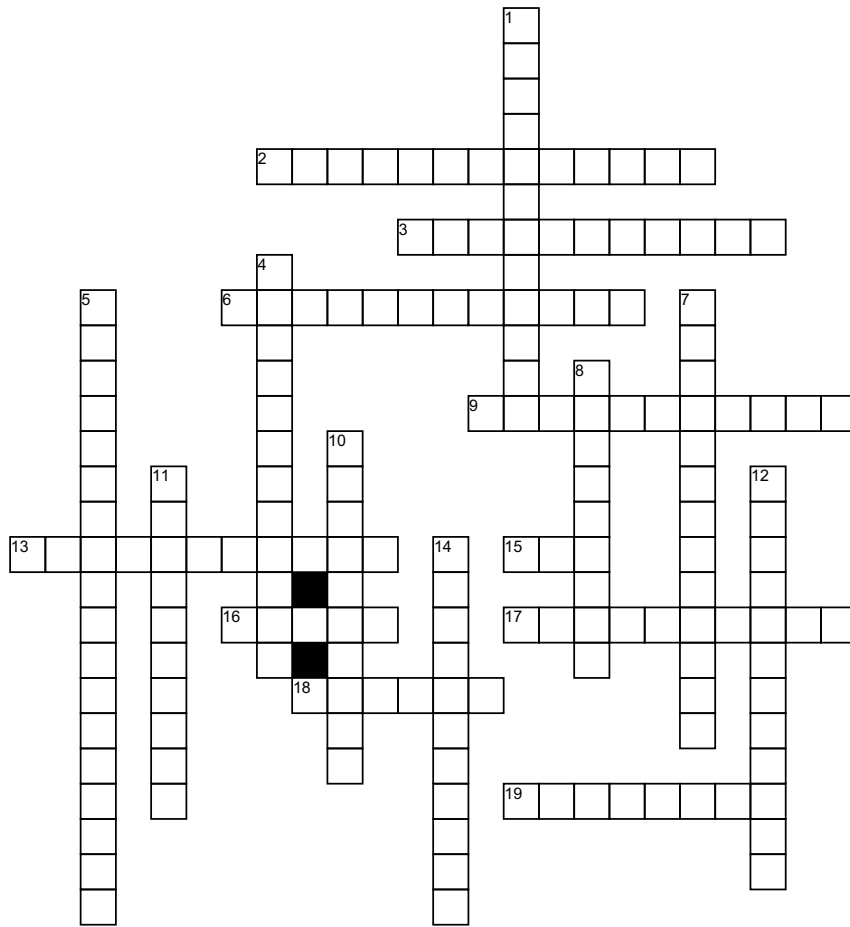


States of Matter



Across

2. The pressure caused by the collisions of particles in a vapor with the walls of a container
3. A reversible physical change that occurs when a substance changes states of matter
6. The energy a substance must absorb to change from solid to liquid
9. A description of change in which a system absorbs energy from its surroundings
13. The process that changes a substance from liquid to gas based on temperature
15. The state of matter in which a material has neither a definite shape or a definite volume
16. The state of matter in which materials have a definite shape and a definite volume
17. The direct proportion of the volume of a gas to its temperature if it is constant
18. The state of matter in which a material has a definite volume but not a definite shape
19. A result of force distributed over an area

Down

1. The phase change in which a substance changes from a gas or vapor to a liquid
4. The phase change in which a substance changes from liquid to gas
5. The energy a substance must absorb in order to change from solid to liquid
7. The energy an object has due to its motion
8. The inverse relationship between volume and gas
10. The phase change in which a gas or vapor changes directly into a solid without first changing into a liquid
11. A description of change in which a system releases energy to its surroundings
12. A temperature of zero Kelvins
14. The phase change in which a substance changes from a solid to a gas or vapor without changing to a liquid first