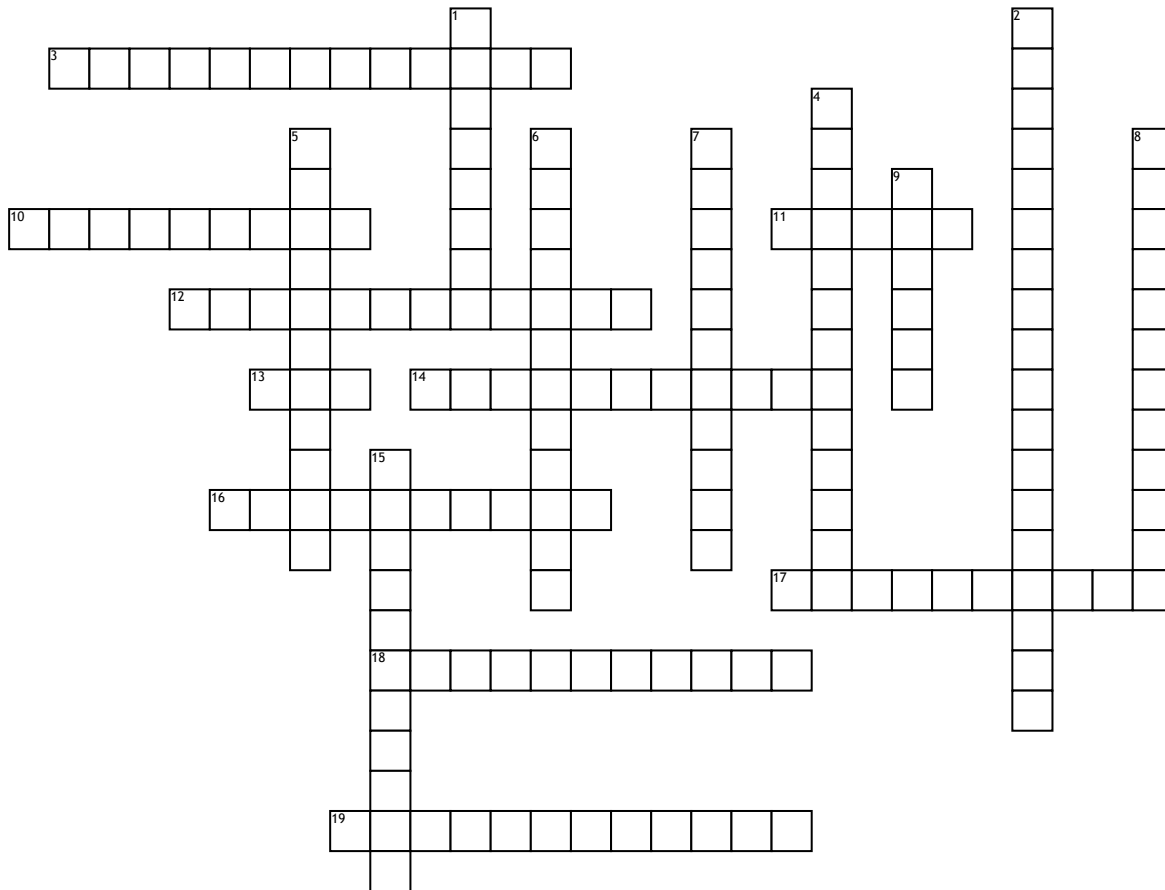


# Matter Project Appetizer Crossword Puzzle



## Across

3. What is the energy an object has due to its motion  
 10. What law states that the volume of a gas is inversely proportional to its pressure if the temperature and the number of particles are constant  
 11. What is a state of matter in which materials have a definite shape and a definite volume  
 12. What is the temperature of 0 K called  
 13. What is a state of matter in which a material has neither a definite shape or volume  
 14. What is the reversible physical change that occurs when a substance changes from one state of matter to another

16. During what type of change does a system release energy to its surroundings  
 17. What is the phase change in which a gas changes directly into a solid without changing to a liquid  
 18. During what type of change does a system absorb energy from its surroundings  
 19. What is the phase change in which the substance changes from a liquid to a gas  
Down  
 1. What is the result of a force distributed over an area  
 2. How much energy a substance gains when it vaporizes  
 4. If water is in a closed container what is pressure caused by the collisions of this vapor and the walls of the container called

5. What is the process that changes a substance from a liquid gas at temperatures below its boiling point  
 6. What is the phase change in which a substance changes from a gas or vapor to a liquid  
 7. What is the phase change in which a substance changes from a solid to a gas or vapor without changing to a liquid first  
 8. What is the amount of energy absorbed called  
 9. What is a state of matter in which a material has a definite volume but not a definite shape  
 15. What law states that the volume of a gas is directly proportional to its temperature in kelvins if the pressure and the number of particles of the gas are constant