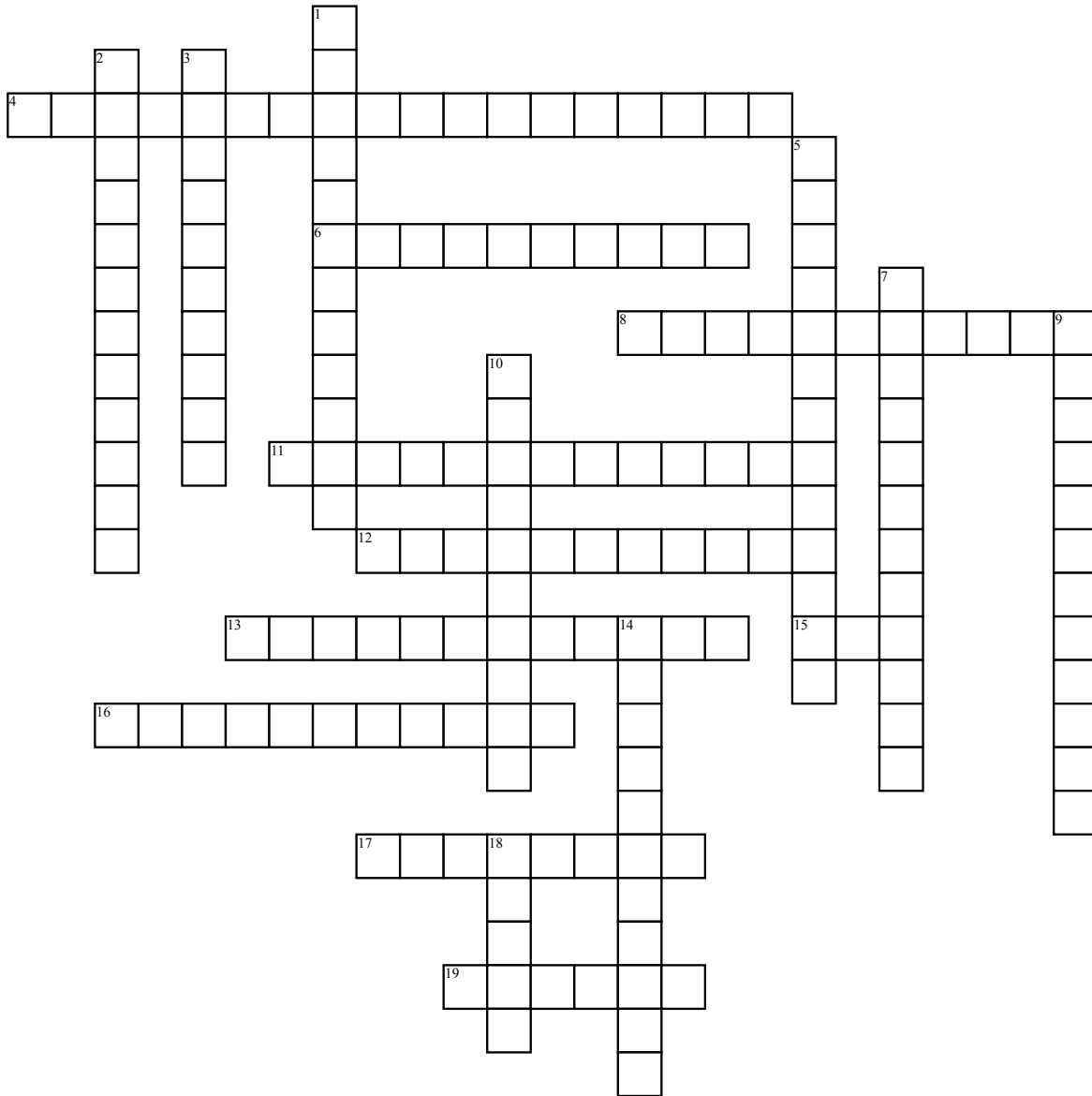


Matter Project Appetizer



Across

- 4. The energy in a substance must absorb in order to change from a liquid to a gas
- 6. A description of a change in which a system releases energy to its surroundings
- 8. A description of a change in which a system absorbs energy from its surroundings
- 11. The pressure caused by the collisions of particles in a weber with the walls of a container
- 12. A reversible physical change that occurs when a substance changes from one state of matter to another
- 13. A temperature of 0 kelvins
- 15. The state of matter in which a material has neither a definite shape nor a definite volume

- 16. The phase change in which a substance changes from a solid to a gas or vapor without changing to a liquid first
- 17. The result of a force distributed over an area
- 19. The state of matter in which a material has a definite volume but not a definite shape

Down

- 1. The direct proportion of the volume of a gas to its temperature (in kelvins) if the pressure and the number of particles of the gas are constant
- 2. The phase change in which a substance changes from a liquid into a gas
- 3. The inverse variation of the volume of a gas will its pressure if temperature and the number of particles are constant

- 5. The energy an object has due to its motion
- 7. The energy a substance must absorb in order to change from a solid to a liquid
- 9. The phase change in which a substance changes from a gas or vapor to a liquid
- 10. The phase change in which a gas or vapor changes directly into a solid without first changing into a liquid
- 14. The process that changes a substance from a liquid to a gas at temperatures below the substance's boiling point
- 18. The state of matter in which materials have a definite shape and a definite volume