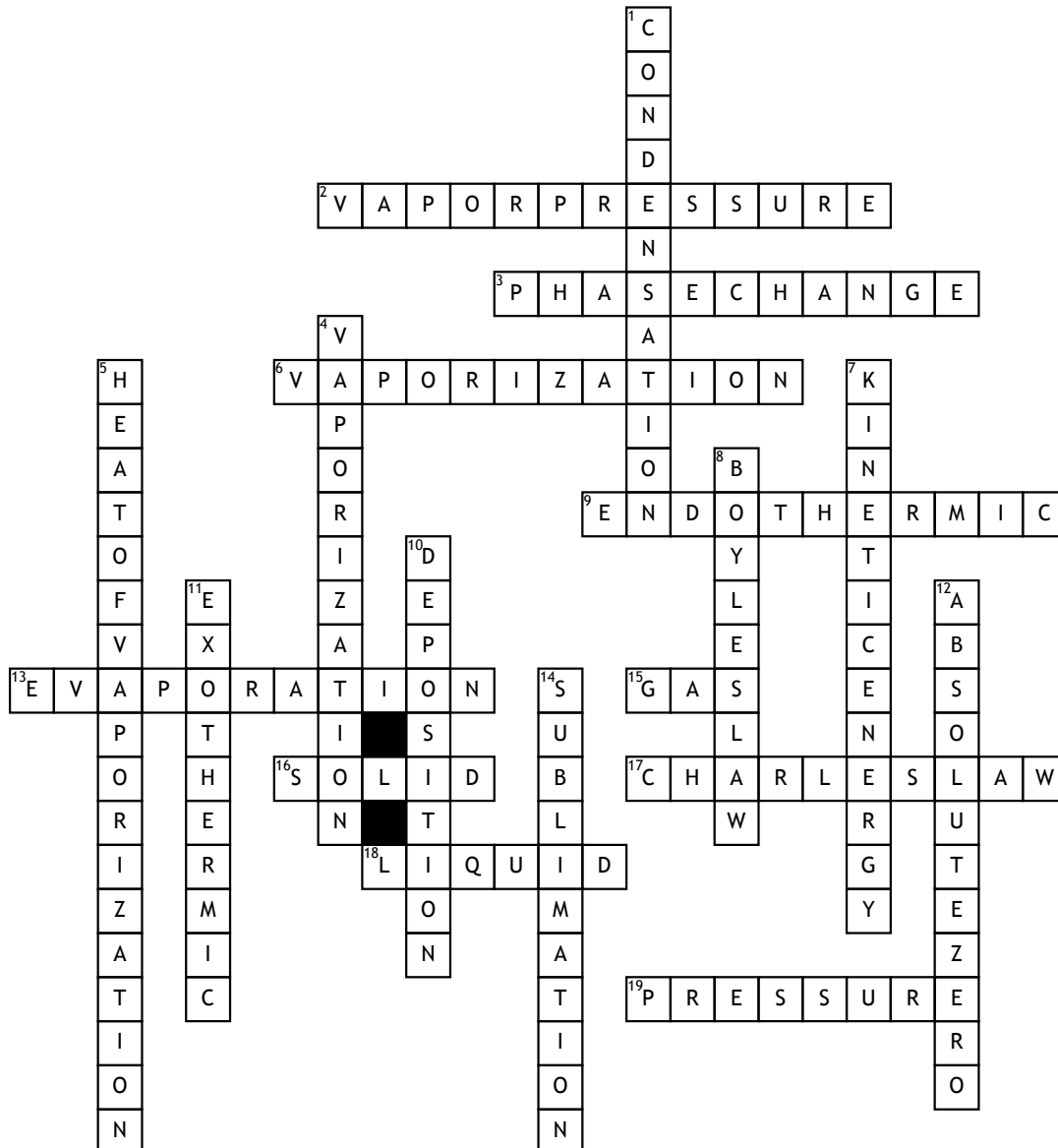


# States of Matter



## 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 into 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