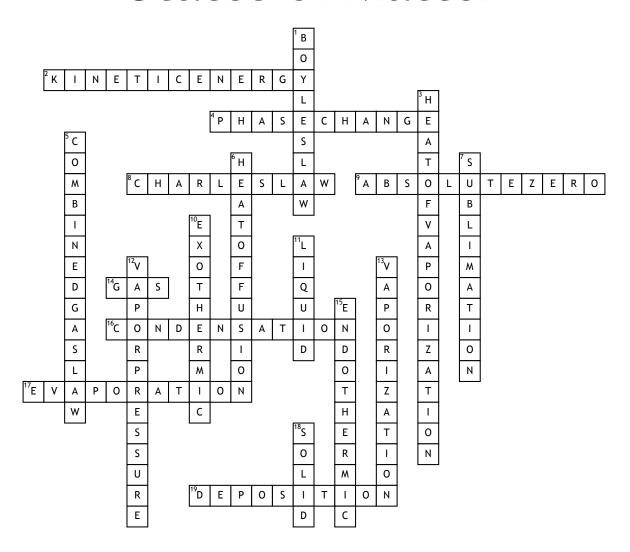
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States of Matter



Across

- 2. the energy an object has due to its motion
- **4.** the reversible physical change that occurs when a substance changes from one state of matter to another
- 8. Charle's LawThe 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.
- 9. a temperature of 0 Kelvin
- **14.** 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 gas or vapor to a liquid
- **17.** the process that changes a substance from a liquid to a gas at temperatures below the substance's boiling point

19. when a gas or vapor changes directly into a solid without first changing to a liquid (example: frost)

Down

- 1. The volume of a gas is inversely proportional to its pressure if the temperature and the number of particles are constant.
- **3.** the amount of energy a substance must absorb in order to change from a liquid to a gas.
- **5.** mathematically describes the relationship between pressure, volume and temperature of a gas when number of particles is constant
- **6.** the amount of energy a substance must absorb in order to change from a solid to a liquid
- 7. the phase change in which a substance changes from a solid to a gas or vapor without changing to a liquid first

- **10.** a change in which a system releases energy to its surroundings
- 11. the state of matter in which a material HAS a definite volume BUT NOT a definite shape
- **12.** the pressure caused by the collision of particles in a vapor and the walls of a container
- **13.** the phase change in which a substance changes from a liquid to a gas
- **15.** a change where the system absorbs energy from its surroundings
- **18.** the state of matter in which materials have BOTH a definite shape and a definite volume