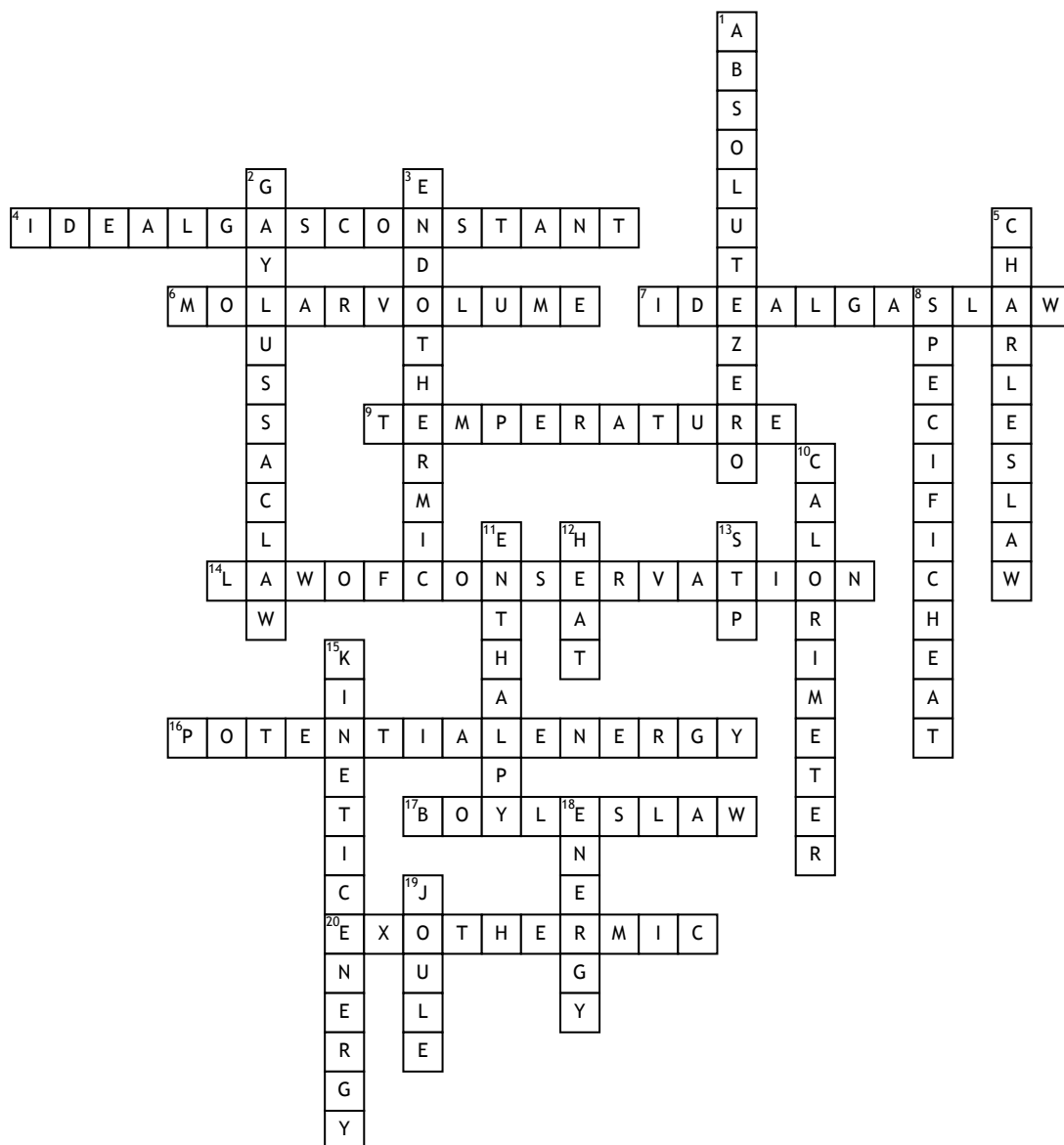


Name: _____

Date: _____

Gas Laws



Across

4. $PV=nRT$
 6. volume occupied by one mole of a gas, liquid, or solid
 7. characterized by three state variables: P, V, T
 9. Average kinetic energy of particles
 14. Energy is not created nor destroyed
 16. Stored energy Ex: a loaded slingshot
 17. Pressure and volume are inversely proportional if moles and temperature are constant

20. a reaction that releases heat

Down

1. Condition in which kelvin is used
 2. Pressure of a fixed mass gas varies directly with the kelvin temperature when volume remains constant
 3. Adsorbing heat
 5. Temperature and volume are directly proportional

8. Amount of heat needed to raise temperature of one gram of a substance by one degree celsius
 10. a device used to measure heat changes
 11. quantity associated with a thermodynamic system
 12. Form of energy flowing from high to low
 13. used for measuring gas density and volume
 15. Energy in motion
 18. Ability to do work
 19. Unit of energy