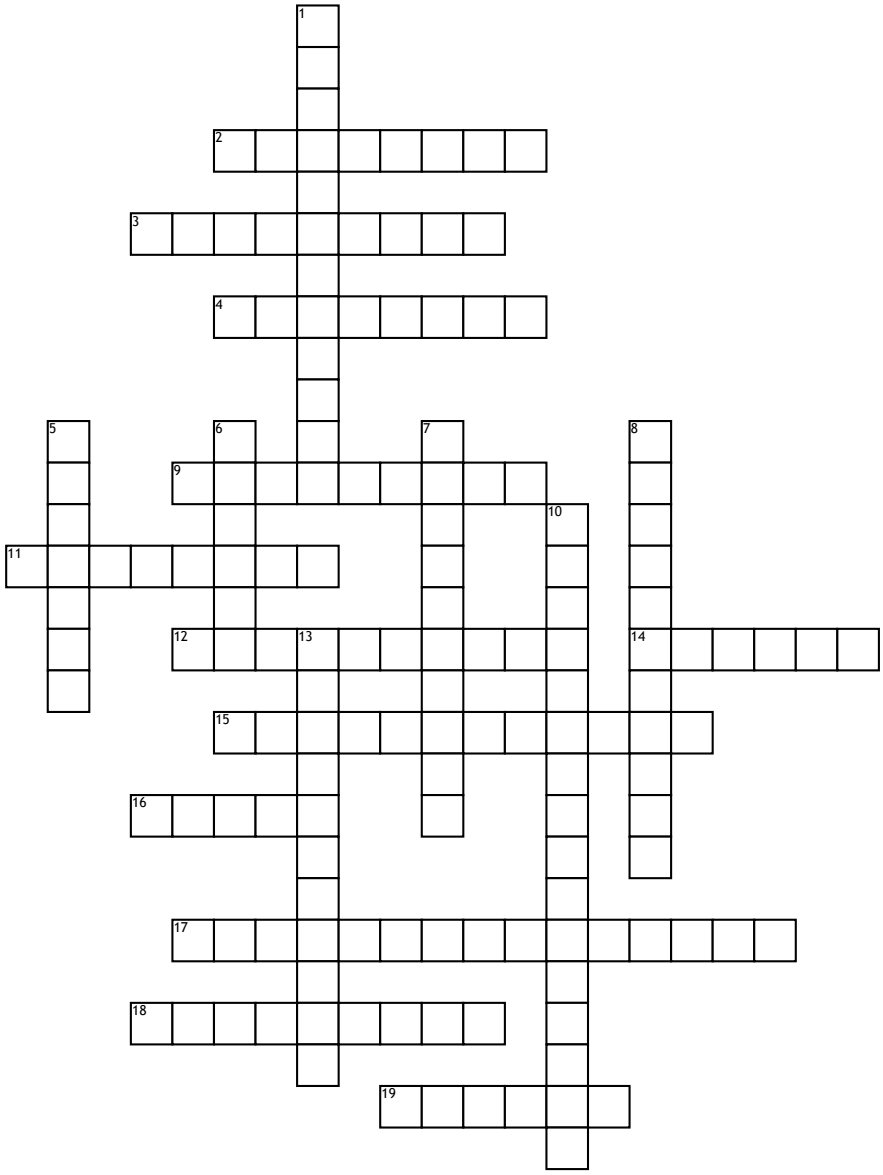
Name: _____ Date: _____

Gas Laws



Across

2. the ability or tendency to float in water or air or some other fluid

3. the process in which molecules move from a higher concentration to a lower concentration

4. a gas whose pressure P, volume V, and temperature T are related by the ideal gas law PV = nRT,

9. an instument used to messure atmospheric pressure

11. something is compressed and particles move around bouncing off the sides of the container (trying to escape and expand)

12. variable definition - the space not filled by an atom

14. the quantity of three-dimensional space occupied by a liquid, solid, or gas

15. to be able to be compressed into a solid mass or smaller space

16. an experimental gas law which describes how the pressure of a gas tends to decrease as the volume of a gas increases

17. the hypothetical pressure of that gas if it alone occupied the volume of the mixture at the same temperature

18. related by inverse variation

19. the SI derived unit of pressure used to quantify internal pressure, stress, Young's modulus and ultimate tensile strength

Down

1. the lowest temperature that is theoretically possible, at which the motion of particles that constitutes heat would be minimal

5. a law stating that the volume of an ideal gas at constant pressure is directly proportional to the absolute temperature

6. a volume that encloses little or no matter

7. a combination of gases that surround a planet, room, etc

8. the volume occupied by one mole of a substance at a given temperature and pressure. It is equal to the molar mass (M) divided by the mass density

10. used to explain the behavior of gases and is based upon the following postulates: Gases are composed of a many particles that behave like hard spherical objects in a state of constant, random motion

13. indicates the direction in which energy flows when two objects are in thermal contact

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