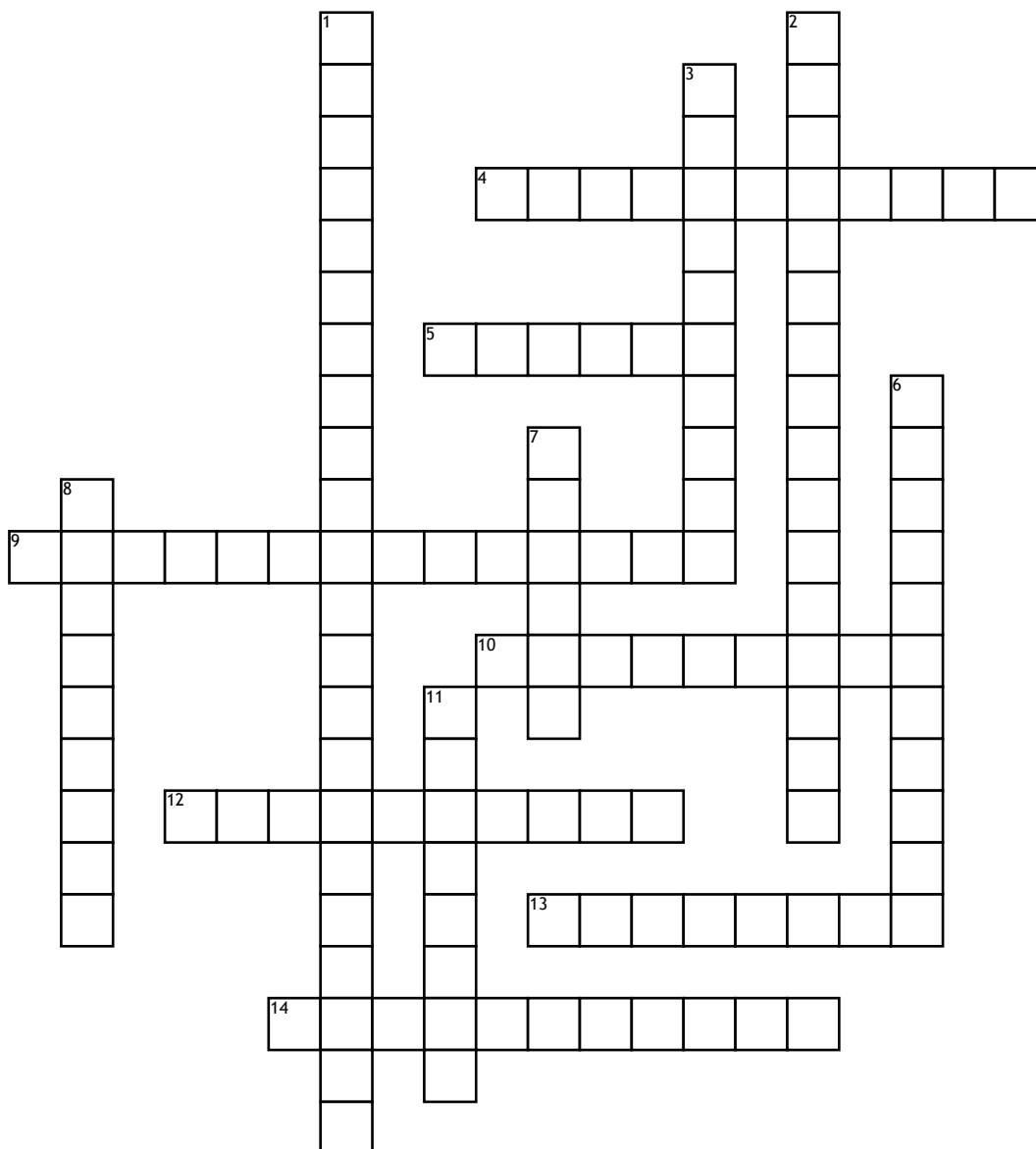


Name: _____

Date: _____

Unit 6



Across

4. equation of state of a hypothetical ideal gas
 5. Celsius minus 273
 9. formula about ideal gases
 10. instrument measuring atmospheric pressure
 12. law stating that the volume of an ideal gas at constant pressure is directly proportional to the absolute temperature.
 13. force applied perpendicular to the surface of an object per unit area over which that force is distributed

14. volume occupied by one mole of a substance at a given temperature and pressure

Down

1. kinetic theory of gases describes a gas as a large number of submicroscopic particles, all of which are in constant, rapid, random motion
 2. denoted by the symbol R or R and is equivalent to the Boltzmann constant
 3. in a mixture of non-reacting gases, the total pressure exerted is equal to the sum of the partial pressures of the individual gases

6. physical quantity expressing hot and cold

7. SI derived unit of pressure used to quantify internal pressure
 8. law stating that the pressure of a given mass of an ideal gas is inversely proportional to its volume at a constant temperature
 11. hypothetical gas whose molecules occupy negligible space and have no interactions