$\qquad$

## Gas Laws

## Across

5. it has never been this cold = zero K
6. the SI unit for the amount of substance
7. volume and temperature are directly proportional 10. 0.0821

L-atm/mol-K
11. a number
written in front of a reactant or product of a chemical
equation

12. describes the
physical behavior of an ideal gas
Down

1. equal volumes of gases at the same temperature and pressure contain equal numbers of particles
2. the pressure of a gas and the kelvin temperature are
3. combines

Boyles, Charles, and Gay-Lussacs Laws 4. volume and pressure are inversely proportional 6. describes a relationship in nature that is supported by many experiments

directly proportional 7. 22.4 L

