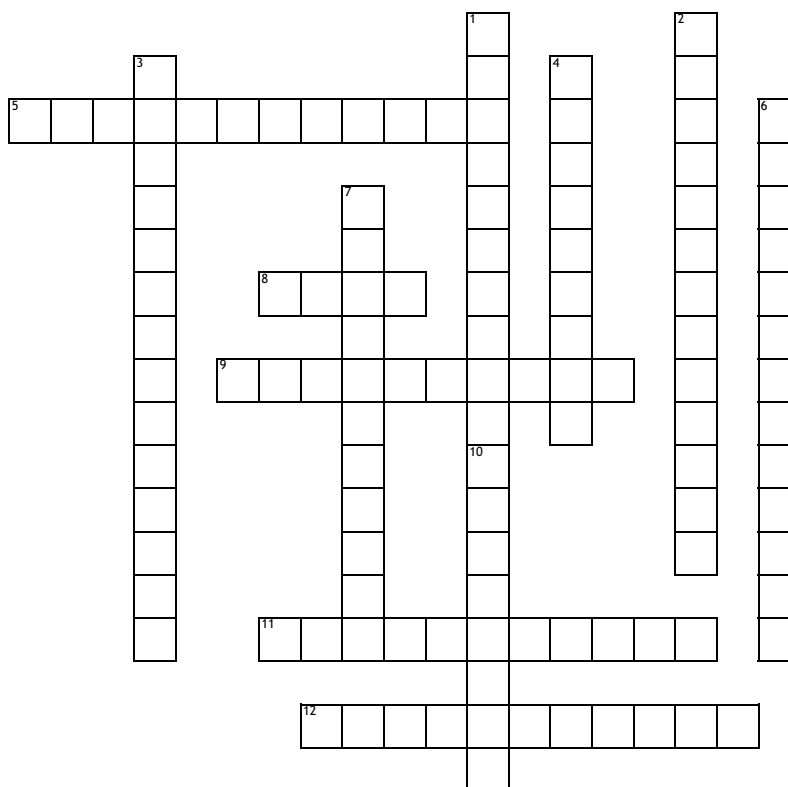


# Gas Laws



## Across

5. it has never been this cold = zero K
8. the SI unit for the amount of substance
9. 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 directly proportional
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
7. 22.4 L