

Name: \_\_\_\_\_

Date: \_\_\_\_\_

# 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

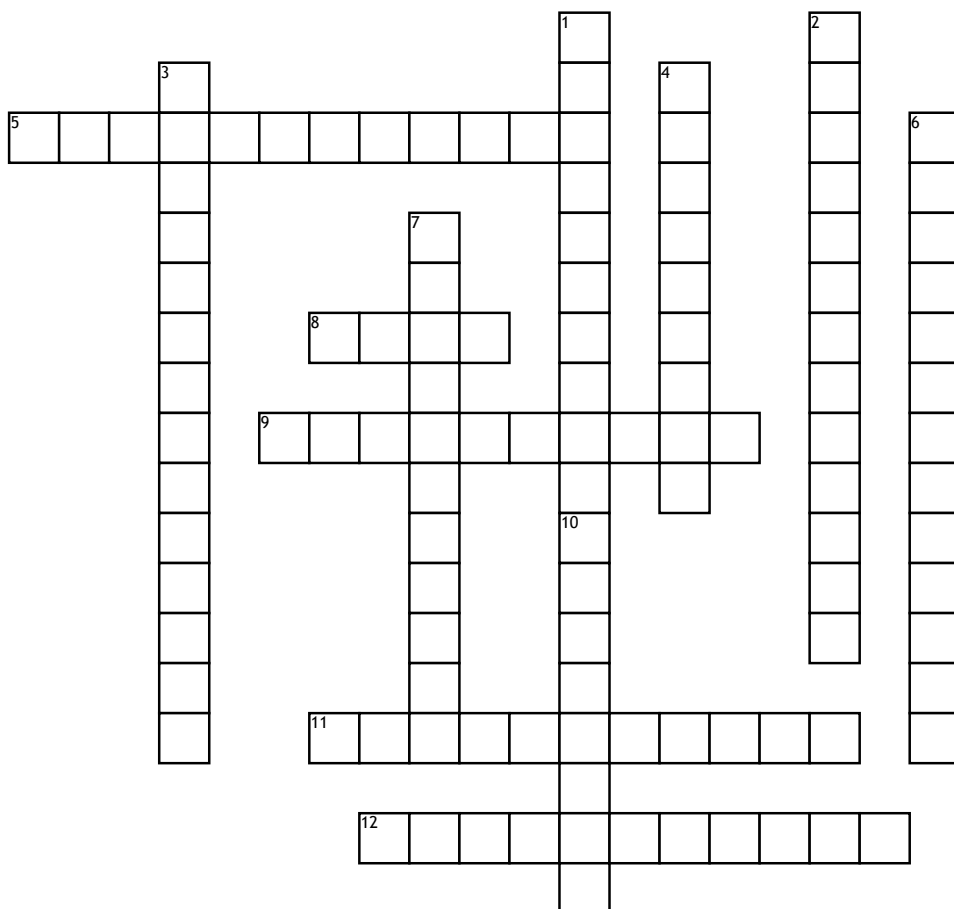
11. a number written in front of a reactant or product of a chemical equation

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

