## While there are legally defined collegiate standards in Pennsylvania, the applicable high school standards have been provided for reference:

## Applicable PA State Standards:

**CHEM.B.2.2.1**: Utilize mathematical relationships to predict changes in the number of particles, the temperature, the pressure, and the volume in a gaseous system (i.e., Boyle’s law, Charles’s law, Dalton’s law of partial pressures, the combined gas law, and the ideal gas law).

**CHEM.B.2.2.2**: Predict the amounts of reactants and products involved in a chemical reaction using molar volume of a gas at STP.