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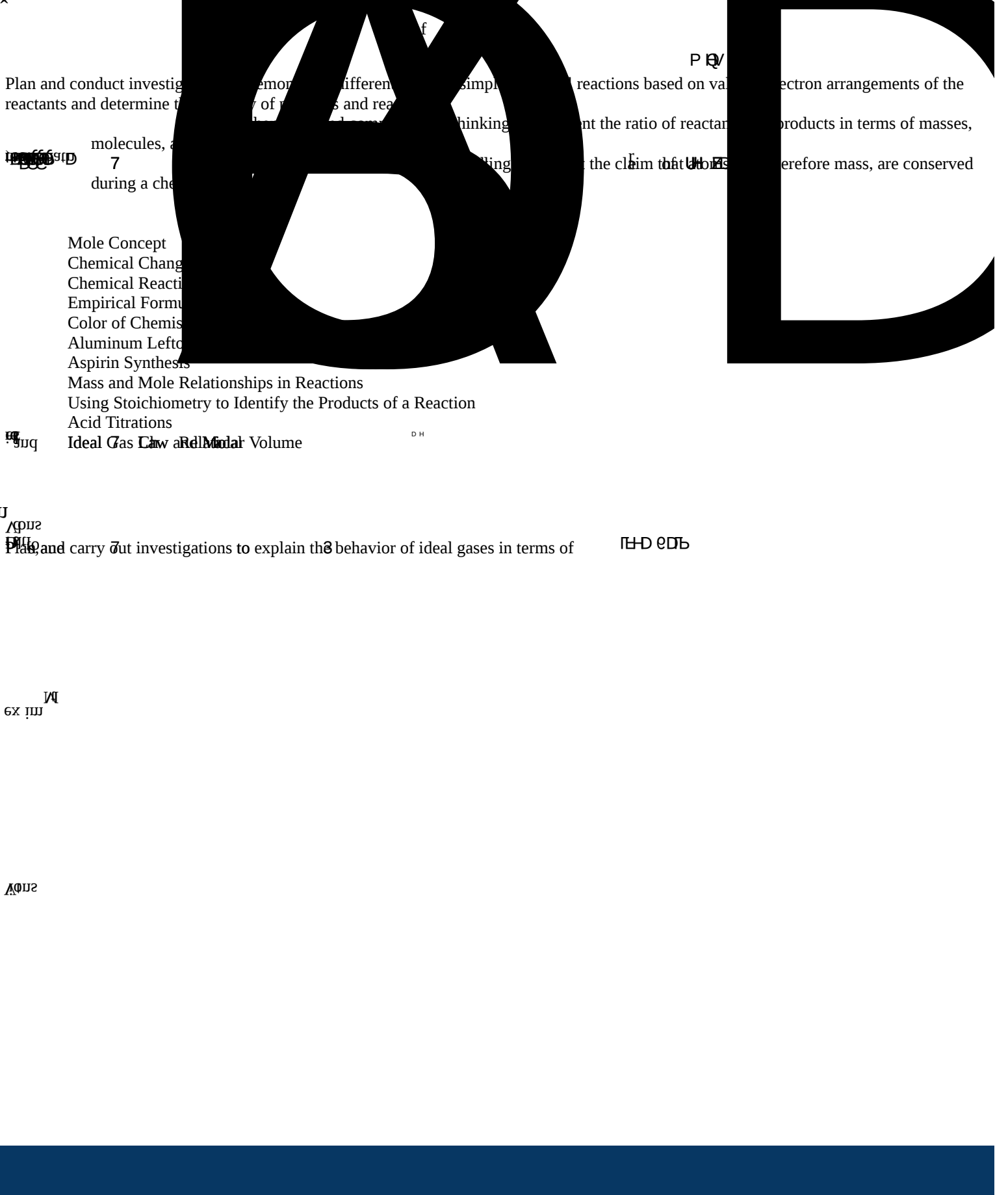
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Plan and conduct an investigation to classify properties of matter as intensive (e.g., density, viscosity, specific heat, melting point, boiling point) or extensive (e.g., mass, volume, heat) and demonstrate how intensive properties can be used to identify a compound.

Density of a Liquid
Thickness of Aluminum Foil
Intensive and Extensive Properties
Extraction and Identification of Dyes (Kool-Aid)
Flame Test
Specific Heat
Melting Points

Obtain and communicate information from historical experiments (e.g., work by Mendeleev and Moseley, Rutherford's gold foil experiment, Thomson's cathode ray experiment, Millikan's oil drop experiment, Bohr's interpretation of bright line spectra) to determine the structure and function of an atom and to analyze the patterns represented in the periodic table.

Develop and use



- Develop and use models to explain how solutes are dissolved in solvents.
- Analyze and interpret data to explain effects of temperature on the solubility of solid, liquid, and gaseous