A dry lab is a laboratory where computational or applied mathematical analyses are done on a computer-generated model to simulate a phenomenon in the physical realm.

The experiments described in these materials are potentially hazardous and require a high level of safety training, special facilities and equipment, and supervision by appropriate individuals. You bear the sole responsibility, liability, and risk for the implementation of such safety procedures and measures. LibreTexts shall have no responsibility, liability, or risk for the content or implementation of any of the material presented.

- **Dry Lab Experiments**

  - 1: ab initio Calculations - Atomic Energetics (Dry Lab)
  - 2: ab initio Calculations - Diatomic Molecular Orbitals (Dry Lab)
  - 3: ab initio Calculations - Dihydrogen Potential Curve (Dry Lab)
  - 4: ab initio Calculations - Electron-Electron Repulsion (Dry Lab)
  - Exercise I: Structure and Electronic Energy of a Small Molecule
  - Simulation: Probabilistic Interpretation of Atomic Orbitals (Dry Lab)

- **Wet Lab Experiments**

  Wet laboratories are laboratories where chemicals, drugs, or other material or biological matter are handled in liquid solutions or volatile phases, requiring direct ventilation, and specialized piped utilities (typically water and various gases).
- General Chemistry Labs
- Organic Chemistry Labs
- Analytical Chemistry Labs
- MIT Labs
- Chemistry in Action Laboratory Manual