



# eScience Labs

## Introductory Chemistry



### Chemistry and Experiments:

- Lab 1: Introduction and Safety
- Lab 2: The Scientific Method

### Measurements:

- Lab 3: Measurements
- Lab 4: Properties of Matter - Density

### Matter and Energy:

- Lab 5: Mixtures and Solutions
- Lab 6: Chemical and Physical Change
- Lab 7: Heat and Calorimetry
- Lab 8: Chemical Processes

### Atomic Theory and Structure:

- Lab 9: Electron Configuration
- Lab 10: Light Spectrum

### Chemical Bonding:

- Lab 11: Molecular Models
- Lab 12: Ionic and Covalent Bonds
- Lab 13: Polar Bonding

### Introducing Chemical Reactions:

- Lab 14: Chemical Reactions I
- Lab 15: Chemical Reactions II
- Lab 16: Metals and Oxidation



# Introductory Chemistry

## Classification of Elements :

Lab 17: The Mole and Avogadro's Number

Lab 18: The Periodic Table

Lab 19: Stoichiometry

## Gas Laws:

Lab 20: Ideal Gas Law

## Reaction Rates:

Lab 21: Reaction Rate

Lab 22: Catalysts

## Acids and Bases:

Lab 23: Acids and Bases

Lab 24: Titration