



## Introductory Biology

Version 4

### Introduction:

- Lab 1: Introduction to Science
- Lab 2: General Biology Lab Safety
- Lab 3: Cell Structure and Function
- Lab 4: Energy and Photosynthesis
- Lab 5: Mitosis
- Lab 6: Mendelian Genetics
- Lab 7: Population Genetics
- Lab 8: Ecology of Organisms
- Lab 9: Meiosis
- Lab 10: Ecological Interactions





# Introductory Chemistry

## Chemical Reactions

Lab 14: Evaluating Precipitation Reactions

Lab 15: Discovering the Five Types of Chemical Reactions

Lab 16: Oxidation-Reduction Reactions and Balancing Equations

## Appreciating the Classification of Elements

Lab 17: Determining Avogadro's Number

Lab 18: Periodic Trends in Atomic Properties

Lab 19: Stoichiometric Calculations: Reactants and Products

## Overview of the Gas Laws

Lab 20: Using the Ideal Gas Law

## Introduction to Kinetics and Reaction Rates

Lab 21: Exploring Reaction Rates and their Variables

Lab 22: Chemical Kinetics and Catalysis

## Discovering the pH Scale with Acids and Bases

Lab 23: The Nature of Acids, Bases, and the pH Scale

Lab 24: Titrations and Equivalence Points

## Appendix: Good Lab Techniques