

Chemistry

Level 1

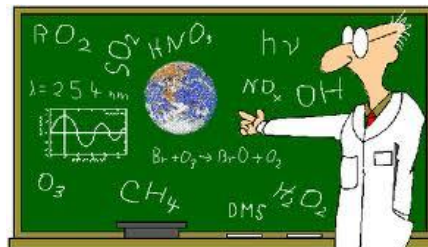
Real Science-4-Kids

Lesson Plans

Chapter 1: Matter

Day 1:

- Read 1.1 Introduction
- Read 1.2 Atoms
- Read 1.3 Periodic Table
- Read 1.4 Summary



Day 2:

- Experiment 1: What is it made of?
- Conclusions

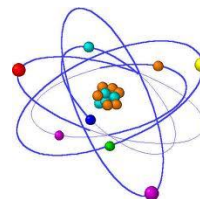


Day 3:

- Answer Review Questions

Day 4:

- Chapter 1 Test



Chapter 2: Molecules

Day 1:

- Read 2.1 From Atoms to Molecules
- Read 2.2 Forming Bonds
- Read 2.3 Types of Bonds
- Read 2.4 Shared Electron Bonds
- Read 2.5 Unshared Electron Bonds
- Read 2.6 Bonding Rules
- Read 2.7 Shapes of Molecules
- Read 2.8 Summary



Day 2:

- Experiment 2: Making marshmallow molecules

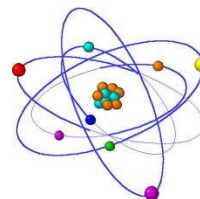


Day 3:

- Answer Review Questions

Day 4:

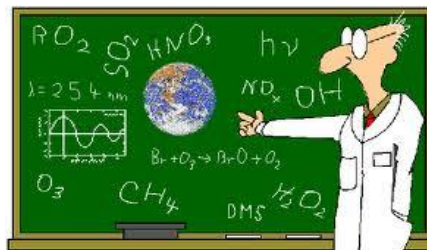
- Chapter 2 Test



Chapter 3: Chemical Reactions

Day 1:

- Read 3.1 Introduction
- Read 3.2 Combination Reaction
- Read 3.3 Decomposition Reaction
- Read 3.4 Displacement Reaction
- Read 3.5 Exchange Reaction
- Read 3.6 Spontaneous or not?
- Read 3.7 Evidences of Chemical Reactions
- Read 3.8 Summary



Day 2:

- Experiment 3: Identifying Chemical Reactions

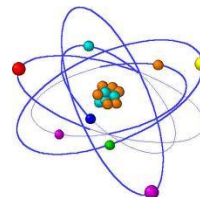


Day 3:

- Answer Review Questions

Day 4:

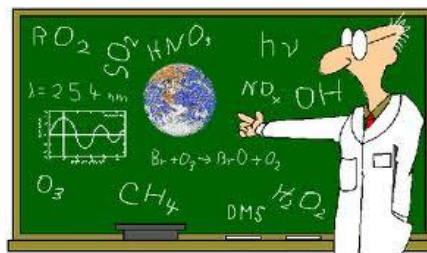
- Chapter 3 Test



Chapter 4: Acids, Bases, and pH

Day 1:

- Read 4.1 Introduction
- Read 4.2 The pH Scale
- Read 4.3 Properties of Acids and Bases
- Read 4.4 Measuring pH
- Read 4.5 Summary



Day 2:

- Experiment 4: Making an Acid-Base Indicator

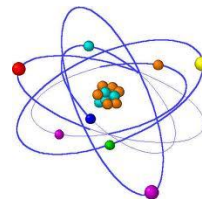


Day 3:

- Answer Review Questions

Day 4:

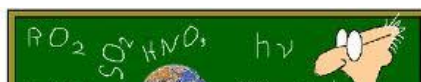
- Chapter 4 Test



Chapter 5: Acid-Base Neutralization

Day 1:

- Read 5.1 Introduction
- Read 5.2 Concentration
- Read 5.3 Titration



- Read 5.4 Plotting Data
- Read 5.5 Plot of an Acid Base Titration
- Read 5.6 Summary

Day 2:

- Experiment 5: Vinegar and Ammonia in the Balance:
An introduction to titrations

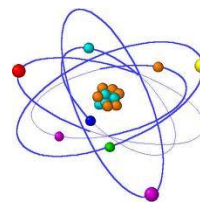


Day 3:

- Answer Review Questions

Day 4:

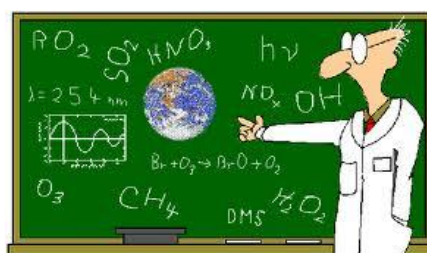
- Chapter 5 Test



Chapter 6: Mixtures

Day 1:

- Read 6.1 Introduction
- Read 6.2 Types of mixtures
- Read 6.3 Like dissolves like
- Read 6.4 Soap
- Read 6.5 Summary



Day 2:

Experiment 6: Mix it up!

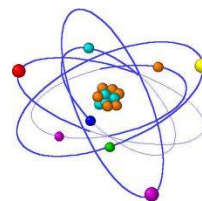


Day 3:

- Answer Review Questions

Day 4:

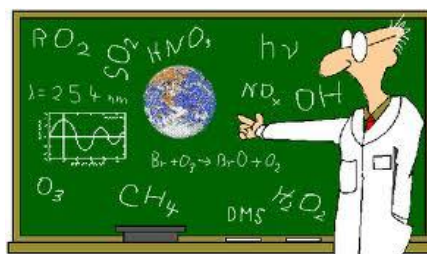
- Chapter 6 Test



Chapter 7: Separating Mixtures

Day 1:

- Read 7.1 Introduction
- Read 7.2 Filtration
- Read 7.3 Evaporation
- Read 7.4 Solids, Liquids, and Gases
- Read 7.5 Chromatography
- Read 7.6 Summary



Day 2:

Experiment 7: Black is Black?

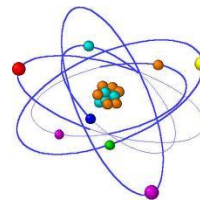


Day 3:

- Answer Review Questions

Day 4:

- Chapter 7 Test



Chapter 8: Energy Molecules

Day 1:

- Read 8.1 Introduction
- Read 8.2 Nutrients
- Read 8.3 Carbohydrates
- Read 8.4 Starches
- Read 8.5 Cellulose
- Read 8.6 Summary



Day 2:

Experiment 8: Show me the Starch!

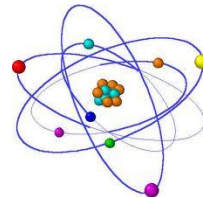


Day 3:

- Answer Review Questions

Day 4:

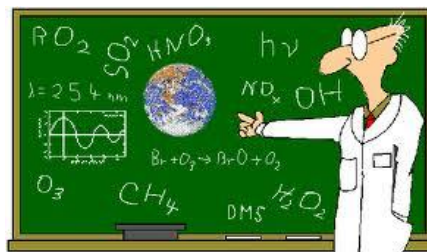
- Chapter 8 Test



Chapter 9: Polymers

Day 1:

- Read 9.1 Introduction
- Read 9.2 Polymer Use
- Read 9.3 Structure of Polymers
- Read 9.4 Modifying Polymers
- Read 9.5 Summary



Day 2:

Experiment 9: Gooney Glue

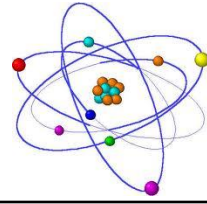


Day 3:

- Answer Review Questions

Day 4:

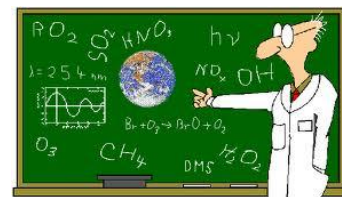
- Chapter 9 Test



Chapter 10: Biological Polymers: Proteins and DNA

Day 1:

- Read 10.1 Introduction
- Read 10.2 Proteins
- Read 10.3 Proteins and Amino Acid Polymers
- Read 10.4 Protein Polymers form Special Shapes
- Read 10.5 Protein Machines
- Read 10.6 DNA
- Read 10.7 DNA Structure
- Read 10.8 Protein Machines on DNA
- Read 10.9 Summary



Day 2:

- Experiment 10: Amylase Action



Day 3:

- Answer Review Questions

Day 4:

- Chapter 10 Test

