SE Chemistry SE Chemistry SE Chemistry
โดย อาจารย์สท้าน แก้วก่า

Unit 5  Acids  Bases & Electrochemistry

Chem 1  Virtual Textbook

1. All about Acids and Bases
   Intro to Acid and Base  pH  Acid – Base Reaction
   Understanding Acid – Base Reaction  Lewis Acids and Bases
   Types of Acids and Bases  Gallery of Some Acids and Bases

2. Chemical Equilibrium
   Intro to Chemical Equilibrium  Le Chatelier Principle  Q and K
   Expression  Calculation

3. Electrochemistry
   Intro to Electrochemistry  Galvanic Cells  Cell Potentials  Nernst Equation
   Applications  Energy Storage  Electrochem Corrosion  Electrolytic Cells

Grandinetti Lab  General Chemistry

1. Matter and Mixture
2. Measurement  SI Unit
3. The Atoms  Periodic Table  Chemical Bonds  The Mole
4. Acids and Bases
5. Reduction / Oxidation Reactions
The pH Factor

- Interactive -

1. Click **pH Panel**
2. **Water & pH**
3. **pH Labs**

BIOLOGY PROJECT  Biochemistry

>Biology Project

1. **Chemistry Tutorial**  Basic Chem  Chem Bonds  Chem of Water
2. **Intro to Organic Molecules**
3. **Large Molecules**  Chemistry of Life
4. **Chem of Amino Acids**
5. **Acids and Bases**  **pH**  **B12 Forate**
6. **Energy Enzymes Catalysis**

DOC BROWN’S  Chem Clinic

>Teach Yourself Chemistry Online  Index  Intro to

1. **Important Basics of Chemistry**
2. **Elements Compounds Mixtures & Reactions**  3. **Atomic Structure**
4. **States of Matter**  5. **Separating Mixtures of Substances**
6. **Acid - Base Theory**  **pH**  **Redox Reactions**
7. **Equations Formula & Name Compounds**  8. **Periodic Table**
9. **Electrochemistry**

Bishop  Intro to Chemistry

>Home  Contents  Chem Tutorials  Animation Index

1. **Structure of Matter**  **Dissolving NaCl**
3. Atomic and Molecular Orbitals  Molecular Origami  Grand Orbital Table
   Molecules in Motion
4. Web Elements – Online Periodic Table

**Chemistry Zone**

>Home  Chemi Cool  Physics Zone  Chem Lessons and Tutorials

1. Matter and Energy
2. Periodic Table  Web Elements  Chemi Cool
3. All About Atoms  Atoms  Atomic Structure  Bonding
2. Acids and Bases  3. Just REDOX
4. Redox and Electrochemistry
5. Organic Chemistry  All Organic Chemistry
6. CHEMystery  Polymer Fun  KEVLAR – Strong Polymer
7. Nuclear Physics  Conservation of Mass and Energy  Particle Adventure
8. Practice in Gas Laws  - Live in JAVA -
   Boyle's Law  Charles' Law  Avogadro's Law
   Combined Gas Law  Ideal Gas Law  All Gas Laws (a great review)
9. Applications of Chem in Community
10. Labs  Online Multimedia Links
11. Links  General Chemistry

**Hyper Physics  Chemistry Concepts**

>HyperPhysics  Chemistry Concepts

1. Periodic Table of Elements
2. Electrochemistry  Lead – Acid Battery  Carbon – Zinc Battery
   Alkaline Dry Cells
3. Measurement of pH Value  Acids  Bases  Salts