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ENVIRONMENTAL ENVIRONMENTAL SCIENCE SCIENCE



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ENVIRONMENTAL SCIENCE

**4**

Topics

**35+**

Lessons



Core Learning Objectives

Learn the basics of matter, atoms, elements, and chemical equations to build a solid chemistry foundation

Explore gases, thermochemistry, bonding theories, and periodic trends to understand chemical behavior

Examine solids, liquids, and solutions, and study chemical kinetics and equilibrium in reactions

Explore thermodynamics, electrochemistry, and biochemistry in complex chemical processes

Gain skills in data visualization, probability, and hypothesis testing to analyze real-world statistics

Apply scientific methods across disciplines, from microbiology to environmental and earth sciences

01

JoVE Core: Chemistry

List of Chapters

- 1.1 Introduction: Matter And Measurement
- 1.2 Atoms And Elements
- 1.3 Molecules, Compounds, And Chemical Equations
- 1.4 Chemical Quantities And Aqueous Reactions
- 1.5 Gases
- 1.6 Thermochemistry
- 1.7 Electronic Structure Of Atoms
- 1.8 Periodic Properties Of The Elements
- 1.9 Chemical Bonding: Basic Concepts
- 1.10 Chemical Bonding: Molecular Geometry And Bonding Theories
- 1.11 Liquids, Solids And Intermolecular Forces
- 1.12 Solutions And Colloids
- 1.13 Chemical Kinetics
- 1.14 Chemical Equilibrium
- 1.15 Acids And Bases
- 1.16 Acid-Base And Solubility Equilibria
- 1.17 Thermodynamics
- 1.18 Electrochemistry
- 1.19 Radioactivity And Nuclear Chemistry
- 1.20 Transition Metals And Coordination Complexes
- 1.21 Biochemistry

02

JoVE Core: Statistics

List of Chapters

- 1.1 Understanding Statistics
- 1.2 Summarizing And Visualizing Data
- 1.3 Measure Of Central Tendency
- 1.4 Measures Of Variation
- 1.5 Measures Of Relative Standing
- 1.6 Probability Distributions
- 1.7 Estimates
- 1.8 Distributions
- 1.9 Hypothesis Testing
- 1.10 Analysis Of Variance
- 1.11 Correlation And Regression
- 1.12 Statistics In Practice



- 1.13 Nonparametric Statistics
- 1.14 Biostatistics
- 1.15 Survival Analysis
- 1.16 Statistical Softwares
- 1.17 Control Charts

03

Basic Biology.

List of Chapters

- 3.1 General Laboratory Techniques

04

Environmental Sciences

List of Collections

- 4.1 Environmental Science
- 4.2 Microbiology
- 4.3 Earth Science

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