Late Nite LABS

Science lab simulations for online and blended learning

Like a flight simulator for science, Late Nite Labs recreates a traditional lab environment accessed right from your computer.

Used by universities and colleges for on-campus and online programs, our labs let students explore in a safe, interactive environment anytime, anywhere. Each experiment module comes equipped with all the instruments materials, and texts for each course—all for less than the price of a textbook—so that you can provide sophisticated learning experiences while preserving resources. And with everything accessed right from a browser, students and educators can work based on their own schedules.

Pricing

Unlimited	Custom Courses
$49.95	$19.95

Faculty accounts are **free!**

Email **sales@latenitelabs.com** or call 1-800-262-0518, and we'll help set you up.

Pricing is subject to change.

Step Up to the Bench

latenitelabs.com info@latenitelabs.com sales@latenitelabs.com 1-800-262-0518

33 Irving Place, 10th Floor, New York, NY 10003

Chemistry Labs & Categories

Basic Principles
- Sample Lab
- Titration Tutorial

Properties of Matter
- Chemical Reaction Types and Their Equations
- Conservation of Mass
- Density – A Characteristic Property
- Characteristic Properties – Melting and Boiling Points
- Identifying Unknown Substances From Characteristic Properties
- Separating a Mixture of Compounds
- Law of Definite Proportions
- Molar Mass of Magnesium

Radiation
- Chemistry of Solutions
- Molecular Weight by Freezing Point Depression
- Precipitation Titration of Cobalt Chloride
- Temperature Dependence of Salt Solubility

Stoichiometry of Chemical Reactions
- Decomposition of Malachite
- Empirical Formula of a Hydrate
- Empirical Formula of Copper Oxide
- Limiting Reactant and Excess Reactant
- Mole to Mole Relationship Between Cu and Ag
- Stoichiometry by Loss of CO2
- Stoichiometry of an Acid-Base Reaction

Acids and Bases
- pH indicators
- Standardization of a NaOH Solution
- Titration of Strong and Weak Acids

Gas Laws
- Apparent Molecular Weight of Air
- Avogadro's Law
- Boyle's Law
- Charles' Law
- Determination of Absolute Zero
- Molar Volume of an Ideal Gas
- Pressure and Stoichiometry
- Volume of Air as a Function of Temperature

Qualitative Analysis
- Qualitative Analysis of Group I Cations
- Alka Seltzer Strength

Thermochemistry
- Enthalpy Change for the Decomposition of Ammonium Chloride
- Enthalpy Change of a Chemical Reaction

Redox
- Alcohol Content of Vodka by Dichromate Titration
- Analysis of Hydrogen Peroxide Solutions
- Identifying Halide Ions
- Oxidation States of Manganese
- Vitamin C Content of Juices

Spectrophotometric Analysis
- Spectrophotometric Analysis of Copper
- Quantitative Determination of Food Dyes in Powdered Drink Mixes

Biology Labs

- The Scientific Method
- Cell Structure and Function
- Biological Molecules
- Acids, Bases and pH Buffers
- Enzymes
- Diffusion and Osmosis
- Cellular Respiration
- Photosynthesis by the Elodea Plant
- Mitosis and Meiosis
- Mendelian Genetics of Corn
- DNA Analysis in a Paternity Case
- Bacteria Cultures and Antibiotics
- Protists
- Fungi
- Plant Structure and Function
- Plant Reproduction
- The Earthworm
- Mammalian Tissues
- Evolution of Island Lizards
- Ecology

Microbiology Labs

- Cultivation of Microorganisms
- Basic Microscopy
- Staining
- Bacterial Growth
- Extended Bacterial Growth
- Control of Bacterial Growth
- Biochemical Characterization
- Antibiotic Sensitivity
- PCR of 16s rRNA Gene
- Bacterial Transformation
- Viral Plaque Assay
- Unknown Identification

Physics Labs

- Error Analysis
- Free Falling Bodies
- Two-Dimensional Kinematics
- Newton's Second Law
- Conservation of Energy
- Conservation of Momentum
- Centripetal Force
- Hooke's Law
- Harmonic Waves
- Torque
- Buoyancy

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