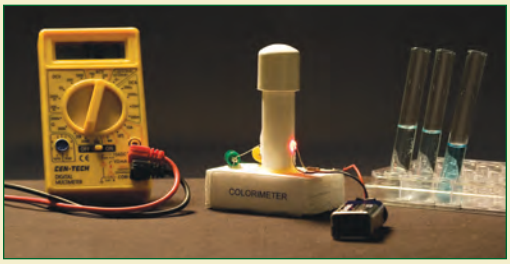
# Chemistry

***Chemistry LabPaqs have been in continuous use since 1994. They contain traditional laboratory experiments uniquely designed to mirror those performed on higher education campuses around the world.***




- Chemistry LabPaqs are widely adopted for ***online and on-campus*** courses and are used with fully accredited courses by ***thousands of college and high school students*** each year.
- Chemistry LabPaqs are designed in accordance with ***micro-scale*** chemistry principles and techniques and contain the same types of ***chemicals*** used in campus labs.
- Each LabPaq comes ***complete*** with a full color lab manual on CD and contains all required science equipment, chemicals, and supplies such as beakers, test tubes, well-plates, a 500 gram digital scale, and a custom designed burner stand.
- Over 50 ***academically aligned*** chemistry experiments complement and reinforce traditional college and high school chemistry curricula and learning objectives.
- Chemistry LabPaq experiments are very ***well-designed.*** They were initially developed by distinguished online Chemistry Professor Peter Jeschofnig, PhD, and labs are continuously improved in subsequent releases through collaboration with the extensive Hands-On Labs' academic community..
- LabPaqs are ***SAFE, fully insured,*** and have a 15-year, 100% safety record.
- LabPaq ***Answer Keys*** and ***Grading Rubrics*** are available.
- LabPaqs are developed and produced by an ***educator-owned company*** with a sincere commitment to foster excellence in online as well as on-campus science education.
- LabPaqs are assembled to exacting quality control standards.


LABPAQ®
The Best Way to Learn Science

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| EXPERIMENT NAME | LABPAQ NAME & EXPERIMENTS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | CK-1 | CK-100 | CK-101 | CK-102 | CK-104 | CK-105 | CK-CHE107 | CK-PH148 | CK-2 | CK-S | CK-W |
| Acid/Base Chemistry | | • | | | | | | | | | |
| Analysis of Phosphate In Water | | | | | | | | | | | • |
| Antacid Analysis and Titration | | | | | | | | | | | |
| Beer's Law & Colorimetry | | | • | | | • | | | • | • | |
| Caloric Content of Food | • | | • | • | • | | • | • | | • | |
| Chemical reactions | | • | | | | | | | | | |
| Chromatography of Food Dyes | | | • | • | | • | | • | • | • | |
| Colligative Properties & Osmotic Pressure | | | • | | | • | | | • | • | |
| Counting with Mass and Volume | | • | | | | | | | | | |
| Determination of Ka for a Weak Acid | | | | | | • | | | • | | |
| Determination of Water Hardness | • | | | | | | • | | | • | |
| Dissolved Oxygen | | | | | | | | | | | |
| Electrochemical Cells and Cell Potentials | | | | | | | | | • | • | • |
| Enzymes and Temperature | | | | • | | | | | | | • |
| Extraction of DNA | | | | | | | | | | | • |
| Hydrolysis of Acetylsalicylic Acid: Sympathetic Ink* | | | | • | | | | | | | |
| Identification of Metallic Ions | • | | | | • | | | | | • | |
| Internet Lab- NO physical lab requirements | | | | | | | | | | | |
| Ionic Reactions | • | | • | | | | • | • | | • | |
| Laboratory Techniques & Measurements | • | | • | • | • | | • | • | | • | • |
| Le Chatelier's Principle | | | • | | | • | • | • | • | • | |
| Lewis Structure Model | | | | | • | | | | | | |
| Light Energy - Design and Construction of a Quantitative | | • | | | | | | | | | |
| Light Energy - Visible Spectra & Nature of Light and Color | | • | | | | | | | | | |
| Liquids & Solids | • | | | | | • | • | | | • | |
| Macromolecules of Life (continued): Testing for Starch | | | | | | | | | | | • |
| Macromolecules of Life (continued): Visualization of Lipids | | | | | | | | | | | • |
| Macromolecules of Life (continued): Testing for Lipids | | | | | | | | | | | • |
| Macromolecules of Life: Testing for Amino Acids | | | | | | | | | | | • |
| Macromolecules of Life: Testing for Sugar | | | | | | | | | | | • |
| Massing activities | | • | | | | | | | | | |
| Math Practice Lab | | | | | • | | | | | | |
| Measuring Density | | | | | | | | | | | |
| Melting Points | | | | • | | | | | | | |
| Modeling Alkanes (Handout) | | | | | | • | | | | | |
| Mole Concept - No physical lab requirements | | | | | | | | | | | |
| Naming Chemical Compounds * | | | | | • | | | | | | |
| Observations of Chemical Changes | • | | | | • | | • | | | • | • |
| Oxidation-Reduction / Activity Series | | | • | | | | | • | • | • | • |
| Physical & Chemical Properties | • | | • | | • | | • | • | | • | • |
| Properties of Gases | • | | • | | | • | • | • | | • | |
| Properties of Matter | | • | | | | | | | | | |
| Qualitative Anion Tests | | | • | | | | | • | • | | |
| Qualitative Cation Tests | | | | | | | | | • | • | |
| Reaction Order and Rate Laws | | | | | | | | | • | • | • |
| Saponification - Synthesis & Analysis of Soap | | | | | | | | | | | |
| Separation of a Mixture of Solids | • | | • | | • | | • | • | | • | • |
| Stereochemistry I | | | | • | | | | | | | |
| Stereochemistry II | | | | • | | | | • | | | |
| Stoichiometry of a Precipitation Reaction | • | | • | | • | | • | • | | • | |
| Synthesis of Volatile, Fragrant Esters | | | | | | | | | | | |
| Taking Measurements | | • | | | | | | | | | |
| The Scientific Method | | • | | | | | | | | | |
| Titration for Acetic Acid in Vinegar | | | | | | • | | | • | • | |
| Titration for Acetic Acid in Vinegar & Using Buffers | | | • | | | | | • | | | |
| **Number of Experiments:** | 11 | 9 | 14 | 8 | 10 | 9 | 11 | 13 | 11 | 20 | 15 |