Virtual Labs
A Realistic Simulated Lab Experience

Introducing the new Connect® Virtual Labs! Your students will be better prepared for lab, more efficient, and retain more of the fundamental skills necessary for a successful laboratory experience.

Virtual Labs is a fully online lab solution that can be used as an online lab replacement, preparation, supplement or make-up lab to bridge the gap between lab and lecture. These simulations help a student learn the practical and conceptual skills needed, then check for understanding and provide feedback.

Available 24/7—even if the lab space isn’t!
Built with accessibility in mind.
Easy-to-follow on-screen instructions.
Student progress is automatically saved.
Visible progress bar.

For more information, please click here or contact your personal Learning Technology Representative.
List of Connect® Virtual Labs Available for Chemistry

Virtual Labs Recommended* for Chemistry Available Summer 2020

<table>
<thead>
<tr>
<th>Metric Measurement:</th>
<th>Diffusion:</th>
<th>Chemical Composition of Cells:</th>
<th>How Enzymes Function:</th>
<th>Osmosis:</th>
<th>Lab Safety:</th>
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</thead>
<tbody>
<tr>
<td>Length</td>
<td>Effect of Molecular Weight of Diffusion in Air</td>
<td>Test for Starch</td>
<td>Effect of Temperature</td>
<td>Movement of Water Across a Selective Permeable Membrane</td>
<td>Hand Washing Procedure</td>
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<tr>
<td>Weight</td>
<td></td>
<td>Test for Sugars</td>
<td>Enzyme Activity</td>
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<td>Personal Safety</td>
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<tr>
<td>Volume</td>
<td></td>
<td>Test for Fat</td>
<td>Effect of pH</td>
<td></td>
<td></td>
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<tr>
<td>Temperature</td>
<td></td>
<td>Test for Proteins</td>
<td>Effect of Concentration</td>
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Virtual Labs for Chemistry Released Throughout Fall 2020

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>• Determine Density of a Plastic Cube (Available)</td>
<td>• Synthesis of Calcium Carbonate (Available)</td>
<td>• Reactions in Solution (Available)</td>
<td>• Calorimeter Constant (Available)</td>
<td>• Identification of a Weak Acid using a Titration Curve (Available)</td>
<td>• Determination of the Ideal Gas Law Constant (Available)</td>
<td>• Standardization of Sodium Hydroxide (Nov. 2020)</td>
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<tr>
<td>• Freezing Point Depression (Jan. 2021)</td>
<td>• Reaction Rates at Different Concentrations (Jan. 2021)</td>
<td></td>
<td>• Buffer Capacity (March 2021)</td>
<td></td>
<td>• Calibration Curve to Find Concentration (June 2021)</td>
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Virtual Labs for Chemistry Coming Spring 2021

<table>
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<tr>
<th>Colligative**:</th>
<th>Kinetics**:</th>
<th>Equilibrium**:</th>
<th>Buffer**:</th>
<th>Electrochemistry**:</th>
<th>Qualitative Analysis**:</th>
<th>Spectrophotometry**:</th>
</tr>
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<tbody>
<tr>
<td>• Freezing Point Depression (Jan. 2021)</td>
<td>• Reaction Rates at Different Concentrations (Jan. 2021)</td>
<td>• Determination of Equilibrium Constant (Feb. 2021)</td>
<td>• Buffer Capacity (March 2021)</td>
<td>• Standard Reduction Potential (April 2021)</td>
<td>• Qualitative Analysis (May 2021)</td>
<td>• Calibration Curve to Find Concentration (June 2021)</td>
</tr>
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See What Students are Saying about Virtual Labs:

What specifically in Virtual Labs enhanced your learning of the content?*

“The pop up questions kept me engaged and made sure I understood what was going on.”
—Student at Northeast Iowa Community College

“I am able to complete at my own pace and not feel rushed or left behind. If needed, I can repeat something to better understand.”
—Student at St. Louis Community College

“You are given immediate feedback where you’re going wrong so you can adjust and reroute.”
—Student at Somerset Community College

*Feedback pulled from a survey of 406 students from various schools across the US using Virtual Labs.

Pricing Options:

Virtual Labs for Chemistry are available through standalone Connect with two access options available:

12-Month Access

Online Access ISBN: 1259406776
Price: $60/term

6-Month Access

Online Access ISBN: 1265638799
Access Card ISBN: 1265639604
Price: $30/term