VIVED VICHEMISTRY

Bringing Learning to Life in VR



Teacher's Guide to VIVED Chemistry for zSpace

How to Get the Most From VIVED Chemistry for zSpace



- **Transform your classroom** with compelling, innovative technology that can make it easy and fun for students to learn complex science concepts.
- Enhance learning potential by demonstrating abstract ideas with symbolic, microscopic and macroscopic chemistry concepts students can explore in 3D space.
- Increase collaborative learning by challenging students to work together to gain new perspectives on how others view things.

Note: VIVED Chemistry is intended to supplement and enrich your existing lesson plans. However, quiz scoring is specific to this program and not integrated into your overall grading system.

Getting Started

Installation and Login

How to install VIVED Chemistry

- 1. Open app manager on zSpace.
- 2. Select and install VIVED Chemistry
- 3. When installation is finished, close app manager.

How to launch the program

From the Windows Start menu \rightarrow All Programs \rightarrow VIVED Chemistry \rightarrow Launch VIVED Chemistry (or) Open zCentral \rightarrow Select Search \rightarrow Search for VIVED Chemistry \rightarrow Launch VIVED Chemistry



For learning activities and quizzes you can control the experiences with the stylus or use a mouse. The **VIVED Chemistry for zSpace** system uses 3D glasses and a stylus, which makes for an immersive **VR stereoscopic experience** in the classroom.

To close the program, click the **Exit button** in the upper right or press **Alt+F4**.

How to register and login

- 1. Register here: <u>https://accounts.vivedlearning.com/csportal/register</u>
- 2. The first time you use the program, you'll be prompted to login. Enter a valid email address and the password you created at registration.
- 3. To complete registration, you'll receive an email to verify the address. Check for that email and click the verification link within the message.
- 4. Once verified, you'll see the login window again. Enter your email and password.

Already have an account

1. Enter your email and password in VIVED Chemistry settings (Gear Icon)

Next, you'll see the Home page window. If you have a product license, click **the Gear Icon**, choose **License Management, Register Key**. Enter the license key and click **Activate**. Once registered, it will look like this:

	SIGN OUT	
Local license keys		
VIVED Chemistry Viewer for zSpace -	1663 days left	
My user keys		
VIVED Chemistry Viewer for zSpace	1663 days	RETURN
	REGISTER KEY	

Getting Started

A Quick Tour of the User Interface

To help you get started, here's an overview of the key components and tools for using VIVED Chemistry. You can learn more about each element later in this guide.



Activities	To support your lesson plans, you can leverage interactive activities focused on chemistry topics such as Acid-Base Reactions, Atom Builder, etc. Simply choose a chemistry activity using the 'Open' button, which you can use to review chemistry teaching presentation or interactive quizzes.
	• <i>First time use</i> : The first time you load the program, it displays a list of activities (see picture above), so you can immediately begin exploring activities.
	• <i>Activity Title</i> : Once you open an activity, the Activity Title appears in the upper left. For any activity you can customize your own title.
	• <i>Slides</i> : When you review activities, you can access slides for showing different chemistry states, coupled with slide text and interactive simulations, and more.
Categories	Activities organized by categories such as Interactive Periodic Table, Atom Builder, Orbital Analyzer, Molecule Viewer, Bonding, Explore, Intermolecular Forces, Balance Equations, Reactions, etc. For each category, you'll find activities for numerous topics.
Activity Menu	Quick access to the library of activities arranged alphabetically. Pictured above.
zSpace	VIVED Chemistry for zSpace allows users to explore Chemistry in 3D.

Using the Toolbars

To navigate the interface and explore chemistry activities, you'll see toolbars on the right and lower edges of the main window. When you click on an activity, you'll see ways to navigate the experience.

General Interface Tools

\$	Settings	View Settings (Platform Settings, Licensing, About, Log File, and EULA).
	Show/Hide Activity Text	Toggle on/off Activity Text.
4	Activities Menu	Return to the Activities Menu.
•••	Start Over	Access a drop-down menu for Settings, License Management and Help.
• 0	Next /Previous	Along the bottom of each activity (Other than the Explore Activities), you can move through slides in an activity.
III II	Filter by Category	Filter activities by Category (Interactive Periodic Table, Atom Builder, Orbital Analyzer, etc.)
Q Enter	Search	Search by Activity Title or Activity Description
– ×	Min/Exit	Minimize/Exit the Application

3 Activity Types

Introductory Activities

These activities introduce you to the specific interface that you will encounter for multiple activities in this category.

Introduction to Atom Builder, Introduction to Bonding, Introduction to Interactive Periodic Table

Content Activities

These activities provide the central content for VIVED Chemistry. They have been designed to address much of the content in a high school chemistry course.

Getting Started

Explore Activities

These "sandbox" activities provide an opportunity for you to explore within a category.

Atom Builder – Explore Bonding – Explore Gas Laws – Explore Interactive Periodic Table – Explore Intermolecular Forces – Explore Molecule Viewer – Explore Orbital Analyzer – Explore

Selecting Activities

To select an activity

- 1. Scroll through the opening screen where activities are listed alphabetically.
- 2. To launch an activity, select OPEN.

or

1. Search by category or search term

← Acid-Base Reactio	ons Practice #1
id-Base Reaction	
In an acid-base reaction, an acid and a base can react to form a salt and another acid. The cation of the base and the anion of the acid combine to form a salt. The cation of the acid combines with the anion of the base to form a different acid. Which of the following in an acid in this reaction?	
sodium nitrite	Elements
hydrogen sulfate	sodium $(2NaNO_2(aq) + H_2SO_4(aq) \rightarrow 2HNO_2(aq) + Na_2SO_4(aq))$
	Molecule/Ion Count HNG-IOI H
<u> </u>	Brownian Motion Clear Lines Start Over
	000000

Exploring with a Mouse and zSpace Stylus



When interacting with the Chemistry activities, make selections using the front button on the zSpace stylus or by using the left mouse button.

How to Get Help

From the Settings page window you can access a variety of helpful resources.

Support	Web-based Help Desk with answers to frequently asked questions. Search a topic or send a question to our support team. You can also access the Help Desk in your browser: https://cyberanatomy.freshdesk.com/support/home Or call us at +1 (319) 354-2555.
Feedback	We welcome your feedback to help us continue to improve VIVED Chemistry. The link on the Home screen opens our Feedback page in your browser. (http://cyber-anatomy.com/feedback.php)
VIVED Learning Blog	Learn teaching tips and helpful insights to transform your classroom with engaging 3D lessons that help make complex concepts easier to learn. Visit <u>vivedlearning.com/blog</u> .

Activity Plans

Teachers have access to VIVED Chemistry for zSpace activity plans by visiting: https://zspace.com/edu

Activity plans include

key words corresponding NGSS standard correct answers

Interactive Quiz

Multiple Choice Quiz

- 1. Select correct answer using the stylus or the mouse.
- 2. Users will receive immediate feedback with Correct or Incorrect responses

