

# Teaching Chemistry with zSpace

Learn how to teach chemistry using applications on your zSpace AiO or laptop. More details for using Curie's Elements, zSpace Studio, VIVED Science, VIVED Chemistry, and MEL Chemistry are provided.



Curie's Elements



zSpace Studio




VIVED Science



VIVED Chemistry




MEL Chemistry



### zSpace Curie's Elements

zSpace Curie's Elements can be used to teach about elements and their characteristics. It includes an interactive periodic table and an atom builder.


Middle School  
High School



### zSpace Studio

zSpace Studio can be used to teach about biochemistry including macromolecules and chemical processes.

High School



### VIVED Science

VIVED Science can be used to teach about molecular structure for a number of common compounds.

High School

#### Activities include:

- The Elements of the Periodic Table [A322](#)
- Inside the Atom [A323](#)

#### Sandbox includes:

- Interactive Periodic Table and Atom Builder [AP24](#)

#### Activities include:

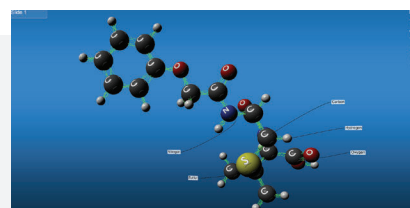
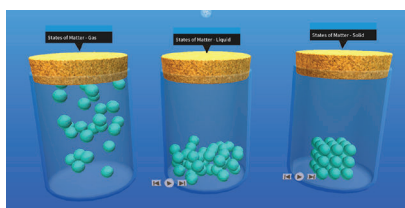
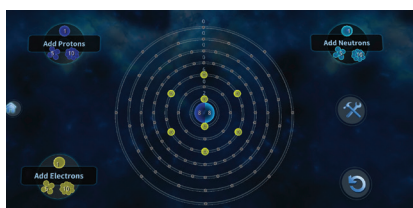
- The Properties of Water [A145](#)
- Macromolecules [A109](#)
- Glucose and Cellular Respiration [A303](#)

#### zSpace Studio Models include:

- Estrogen MO433
  - Fatty Acid Chain MO415
  - Lactose MO420
  - Ozone MO425
  - Phospholipid MO426
- [Models can be explored in the Sandbox AP21.](#)

#### Molecular Models (Dissectable) include:

- Acetylsalicylic Acid
- ATP
- Caffeine
- D-Glucose
- Penicillin [AP27](#)



# Teaching Chemistry with zSpace

Learn how to teach chemistry using applications on your zSpace AiO or laptop. More details for using Curie's Elements, zSpace Studio, VIVED Science, VIVED Chemistry, and MEL Chemistry are provided.



Curie's Elements



zSpace Studio



VIVED Science



VIVED Chemistry



MEL Chemistry



## VIVED Chemistry

VIVED Chemistry can be used to teach key concepts covered in high school chemistry.

High School

All VIVED Chemistry lessons can be accessed at [AP30](#).

These short lessons focus on key concepts taught in high school chemistry.

Three types of lessons:

### Introductory Lessons

Lessons that introduce content and simulations to address that content include:

- Introduction to Atom Builder
- Introduction to Bonding
- Introduction to Interactive Periodic Table
- Introduction to Radioactive Decay
- Introduction to Different Types of Reactions

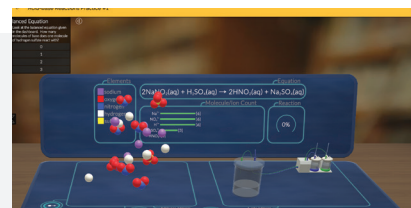
### Exploratory Lessons

Sandboxes that allow students to further explore simulations include:

- Atom Builder - Explore
- Bonding - Explore
- Crystals - Explore
- Gas Properties - Explore
- Interactive Periodic Table - Explore
- Molecule Viewer - Explore
- Orbital Analyzer - Explore
- pH - Explore

### Practice Lessons

Additional lessons include interactions, practice questions with correct answers, and use of key terms.



# Teaching Chemistry with zSpace

Learn how to teach chemistry using applications on your zSpace AiO or laptop. More details for using Curie's Elements, zSpace Studio, VIVED Science, VIVED Chemistry, and MEL Chemistry are provided.



Curie's Elements



zSpace Studio



VIVED Science



VIVED Chemistry



MEL Chemistry



## MEL Chemistry

MEL Chemistry can be used to visualize and interact with key concepts covered in middle school and high school.

Middle School  
High School

All MEL Chemistry lessons can be accessed at [AP44](#).

The lessons and labs focus on key concepts taught in middle school and high school chemistry.

### Lessons are organized into topic areas including:

- Atoms
- Periodic table
- Molecules
- Gas laws
- Isomerism

### Interactive Experiments include:

- Make your atom
- Periodic table
- Make a molecule
- Gas laws
- Building isomers

