

# Overview of K-12 Learning Applications

## Modeling and General Applications



**zSpace Studio** is a rich model exploration and presentation tool that allows students to compare, dissect, analyze, measure, annotate, and explore thousands of 3D models from the zSpace Model Gallery.



**Leopoly Maker** introduces students to the world of 3D creation by helping them create, customize, and prepare digital objects for 3D modeling and printing.



**Tinkercad** is a simple, online 3D design and printing app for everyone. With zSpace, creators are able to visualize designs in an AR/VR environment with more accurate representation.



**Geogebra** allows students to manipulate and learn geometry and algebra concepts. Students can also use the Graphing Calculator feature for functions, geometry, algebra, calculus, and 3D math.



**Unity Programming** helps educators teach zSpace application development. This toolkit provides a robust teaching environment and encourages students to develop interactive applications.

## STEM Applications



**Newton's Park** allows students to create their own experiment or use experiments created by zSpace to deepen their knowledge of Newtonian Mechanics. Students can build simulations while gathering and interacting with data.



**Franklin's Lab** guides students through electricity concepts and troubleshooting faulty circuits. Students can work in a sandbox with electrical components, follow guided zSpace activities, and repair broken switches and motors.



**Curie's Elements** allows students to explore a periodic table with Bohr and atomic models for each element. The Atom Builder feature allows students to add protons, neutrons, and electrons to build elements.



**Euclid's Shapes** provides virtual math manipulatives to allow students to build in concrete representations of math concepts. Students can utilize Base 10 Blocks, Rainbow Cubes, Square Tiles, Pattern Blocks, and Fraction Bars.



**zSpace Experiences** includes experiential-based simulations of Earth, Life, and Physical Science topics allowing students to manipulate content while learning abstract concepts.



**VIVED Science** is a comprehensive package of detailed, interactive dissection experiences focused on learning and exploring Human Anatomy, Botany, Zoology, Earth Science, Microbiology, Chemistry, Engineering, and Paleontology.



**BlocksCad** is the graphical, engaging, and effective way to teach coding, where the outcome is improved math & computer science skills.

## Advanced Sciences



**Human Anatomy Atlas** by Visible Body is an award-winning human anatomy general reference application. Students can explore bodily systems, over 4,600 anatomical structures, musculoskeletal animations, and thousands of quizzes.



**VIVED Science** is a comprehensive package of detailed, interactive dissection experiences focused on learning and exploring Human Anatomy, Botany, Zoology, Earth Science, Microbiology, Chemistry, Engineering, and Paleontology.



**VIVED Chemistry** includes 15 simulations and 109 activities to support Physical Science and Chemistry instruction. The application includes everything from an atom building and molecule viewer to a reaction lab.



**VIVED Anatomy** is a high quality visual and interactive software for learning anatomy in 3D. It enables users to view the human body and perceive spatial relationships like never before.



**Labster Physics Experiences** is an application designed to support Physical Science and Physics instruction.

## Conceptual Physical Science



**Newton's Park** allows students to create their own experiment or use experiments created by zSpace to deepen their knowledge of Newtonian Mechanics. Students can build simulations while gathering and interacting with data.



**Franklin's Lab** guides students through electricity concepts and troubleshooting faulty circuits. Students can work in a sandbox with electrical components, follow guided zSpace activities, and repair broken switches and motors.