

# Overview of Learning Applications

## Included with every zSpace



**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.

K-12

Life Science  
Physical Science  
Social Science  
Geography

Earth & Space Science  
Engineering Design  
English Language Arts  
Storytelling



**Leopoly** introduces students to the world of 3D creation by helping them create, customize, and prepare digital objects for 3D printing. With Leopoly, anyone can become a 3D designer.

K-12

3D Modeling  
Geometry  
Ratios  
Functions  
Art & Design

Problem-based Learning  
Biochemistry  
Botany  
Zoology



**Geogebra** allows students to better engage in math concepts related to three-dimensional topics. Students can also use the Graphing Calculator feature for functions, geometry, algebra, calculus, and 3D math.

MIDDLE SCHOOL

HIGH SCHOOL

Volume  
Cross-sections  
Geometry  
Surface Area

## zSpace Learning Applications Package



**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.

K-12

Momentum  
Forces  
Projectile Motion  
Functions  
Energy  
Scientific Method



**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 in the Workbench.

K-12

Troubleshooting  
Open/Closed Circuits  
Series & Parallel Circuits  
Conductivity  
Resistance



**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.

MIDDLE SCHOOL

HIGH SCHOOL

Chemistry



**Euclid's Shapes** offers activities with math manipulatives and provides teachers with a guide to math learning. Students can utilize Base 10 blocks, Rainbow Cubes, Square Tiles, Pattern Blocks and Fraction Bars.

ELEMENTARY

MIDDLE SCHOOL

Ratios  
Geometry  
Functions  
2D Crosssections

Numbers and Operations  
- Base 10  
- Fractions  
Measurements and Data

## Additional Applications Available for Purchase



**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.

K-12

CTE

Cycles  
Zoology  
Anatomy  
Genetics  
Cells and Viruses

Classification  
Relationships  
Botany  
Evolution  
Earth Science



**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.

HIGH SCHOOL

CTE

Anatomy



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

MIDDLE SCHOOL

HIGH SCHOOL

CTE

Anatomy  
Kinesiology



**VR Automotive Mechanic** by GTA lets students practice assembly and disassembly within a virtual shop where safety is guaranteed and practice can be repeated. Students will be better prepared for real-world training after working within the VR Automotive Mechanic Simulation.

CTE

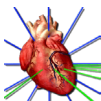
Assembly/Disassembly  
- Suspension  
- Brakes  
- Engine  
- Transmission



**VR Automotive Expert** by GTA is the first of its kind, 3D interactive study guide for automotive training. Detailed text and interactive simulations allow students to visualize and engage with content to deepen understanding.

CTE

Modules include:  
- Clutch  
- Transmission  
- Powertrain System  
- Wheel and Axle  
- Suspension  
- Steering System  
- Brake System  
- Air conditioning  
- Air Distribution  
- Air Compressor



**Virtual ECG** by Vizitech allows students to practice ECG electrode placement, understand the relationship between electrode placement and the ECG strip, and study abnormal ECGs.

CTE

Electrocardiography



**Wave NG** by Mimbus provides students with hands-on training in welding gestures, MAG and MMA, through a series of exercises performed with a handheld welding simulator.

CTE

Welding