Overview of Learning Applications

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 Crossections

Numbers and Operations
  - Base 10
  - Fractions
Measurements and Data

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   Classification
Zoology   Relationships
Anatomy   Botany
Genetics   Evolution
Cells and Viruses   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   - Steering System
  - Transmission   - Brake System
  - Powertrain System   - Air conditioning
  - Wheel and Axle   - Air Distribution
  - Suspension   - 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

Learn more online at zspace.com