



zSpace Learning Lab

The zSpace Learning Lab includes a suite of learning applications, hundreds of activities ready for integration into your curriculum, and zSpace all-in-one computers that deliver lifelike experiences that...



Inspire Curiosity. Engage Students.

Creating engagement through exploration and experiential learning in a student-centered environment defines the zSpace learning experience. Concepts and places typically left to the imagination become tangible.

Build Student Confidence.

zSpace develops fearless learners through an environment where safety is guaranteed, supplies are unlimited and experimentation is encouraged. Through life-like experiences, zSpace levels the playing field of student experience. As confidence grows and engagement is built, student interest in STEM careers expands.

Deepen Student Understanding.

zSpace encourages students to inquire, take risks, and solve problems while building background knowledge to be successful. From creating original experiments to designing new objects, zSpace elevates opportunities for students to apply their learning. Student collaboration creates numerous opportunities for rich academic conversations.



Curriculum Subject Areas

		Life Science	Physical Science	Earth & Space Science	Social Science	Math	Arts	CTE	Languages
zSpace Learning Applications	Studio	✓		✓	✓			✓	Chinese Spanish
	Leopoly	✓					✓	✓	English Only
	Newton's Park		✓	✓		✓			Chinese
	Franklin's Lab		✓						Chinese
	Curie's Elements	✓							Chinese Spanish
	Euclid's Shapes					✓			Chinese Spanish
	Geogebra**					✓			Multiple
	Human Anatomy Atlas*	✓						✓	Multiple
	VIVED Science	✓	✓					✓	Multiple
	VIVED Anatomy*	✓						✓	Multiple
	VIRTUAL ECG	✓						✓	English Only
	Automotive Expert							✓	English Only
	Automotive Mechanic							✓	English Only
	Wave NG by Mimbus							✓	English Only

* Best suited for higher level anatomy learning

** Higher level math concepts of algebra, geometry, functions and 3D math

Content Overview

Life Science

Animal Life Cycles
Human Anatomy
Biochemistry
Biomes
Botany
Cells and Viruses
Chemistry
Classification
Ecology
Evolution
Food Web
Genetics
Relationships
Zoology

Physical Science

Electrical Current
Energy and Collisions
Mechanical Structure and Function
Momentum and Impulse
Motion in Straight Line
Newtonian Mechanics
Newtonian Mechanics
Projectile Motion
Troubleshooting

Engineering Design

Design Thinking
Project-based Learning

Earth & Space Science

Environmental Issues
Fossils
Geographic Features
Human Impact
Natural Hazards
Solar System and Space

Mathematics

Base 10 Operations
Ratios and Proportions
Volume and Surface Area
Fractions
Place Value
Graphing
2D and 3D Shapes
Cross-sections
Algebra
Geometry

History & Geography

Culture
World History
U.S. History
Parts of the U.S.
Parts of the World

Arts

Music
Sculpting

Studio Exploration Models

Thousands of models available for exploration and investigation.



Anatomy



Animals



Animated



Astronomy



Biology



Buildings



Chemistry



Dissectible



Environment



Fun



Furniture



Historical



Insects



Landmarks



Math



Mechanical



Plants



Sculpture



Space



Storytelling



Vehicles

zSpace

Learn more at zspace.com/edu

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

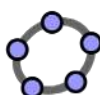


Leopoly introduces students to the world of 3D creation by helping them create, customize, and prepare digital objects for 3D printing. With Leopoly, anyone can become a 3D designer.

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