



Empower  
Student-centric  
immersive  
education.



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MEDIA

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# Realistic Lab Experience taking STEM Education to the Next Level.

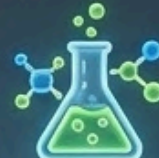
## Virtual STEM Experiment:



science



physics



chemistry



biology



# VR STEM SYSTEM

The Future of Education Starts Here



Immersive learning  
Future-ready students





# Physics VR/3D Virtual Lab

Explore. Experiment. Understand.



Magnetism



Chemistry



Biology



Physics



Mathematics



## Curriculum-aligned Experiment

Experiments designed to align with your learning objectives.



## Household Circuit

Explore and build electric circuits in everyday scenarios.



## Electricity Platform

Investigate electric charge, current, and circuits.



## Equipment Repository

Access and use a wide range of physics equipment.



## Electrical Components

Learn about resistors, capacitors, batteries and more.



## Light & Color Lab

Discover properties of light and color spectrums.



## Mechanics Platform

Explore forces, motion, and mechanical systems.



## Optics Platform

Understand reflection, refraction, and lens phenomena.



## Electromagnetism Lab

Explore magnetic fields, induction, and electromagnetic effects.



## Experiment Guides

Step-by-step guides and theory to support your learning.



## Safe Learning Environment

Practice, experiment, and learn in a safe virtual space.



## Immersive Learning

Realistic VR/3D simulations make complex concepts easy.



## Safe & Risk-Free

Conduct experiments without any real-world hazards.



## Interactive & Engaging

Learn by doing with hands-on virtual experiences.



## Curriculum Aligned

Designed to support educational standards and outcomes.



## Anywhere, Anytime

Access the virtual lab from any device, anytime.



# Chemistry VR/3D Virtual Lab

Explore. Experiment. Understand.



Magnetism



Chemistry



Biology



Physics



Mathematics



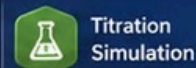
**Structure and Properties of Matter**

Explore atomic and molecular structures and their properties.



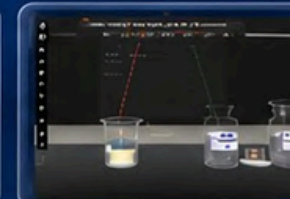
**Crystal Structures**

Visualize and analyze different types of crystal structures.



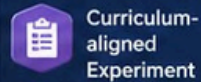
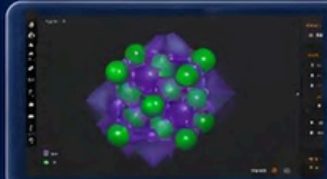
**Titration Simulation**

Perform titration experiments in a safe virtual lab.



**Solutions and Conductivity**

Investigate solution properties and conductivity.



**Curriculum-aligned Experiment**

Experiments designed to match learning objectives.



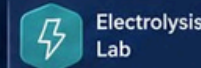
**Atomic Models**

Learn and compare different atomic models interactively.



**Chemical Inquiry**

Explore real-world chemistry through inquiry-based tasks.



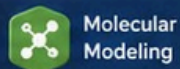
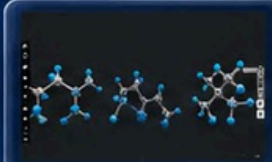
**Electrolysis Lab**

Understand electrolysis processes through interactive simulation.



**States of Matter**

Observe and learn about solids, liquids, and gases.



**Molecular Modeling**

Build and explore molecules in 3D molecular mode.



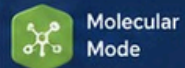
**Usage Rules**

Follow lab safety rules and best practices.



**Lab Safety & Tools**

Learn to handle laboratory tools safely.



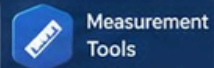
**Molecular Mode**

View and interact with molecules in various representations.



**Experimental Techniques**

Master essential experiment techniques step by step.



**Measurement Tools**

Use virtual instruments for accurate measurements.



**Laboratory Supplies**

Explore common laboratory chemicals and equipment.



**Immersive Learning**

Engage students with realistic VR/3D experiences.



**Safe Environment**

Learn, experiment, and fail safely without risk.



**Interactive & Engaging**

Boost understanding with hands-on simulations.



**Aligned with Curriculum**

Designed to support educational standards.



**Anywhere, Anytime**

Access virtual labs from any device, anytime.



# Biology VR/3D Virtual Lab

Discover. Explore. Understand Life.



Magnetism



Chemistry



Biology



Physics



Mathematics



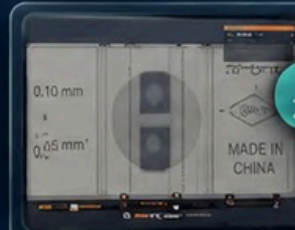
## Microscopic Diversity

Explore a variety of microscopic organisms in stunning detail.



## Animal Anatomy

Examine the structure and systems of living organisms.



## Microscope Simulator

Learn how to use microscopes and prepare specimens.



## Laboratory Techniques

Practice essential lab techniques in a safe virtual space.



## Curriculum-aligned Experiment

Experiments designed to match your learning objectives.



## Evolutionary Tree

Visualize evolution and relationships between species.



## Laboratory Supplies

Access and use a wide range of lab equipment.



## Cell Structure

Explore the structure and function of cells in 3D.



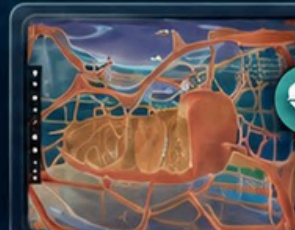
## Physiological Structure

Understand complex biological structures interactively.



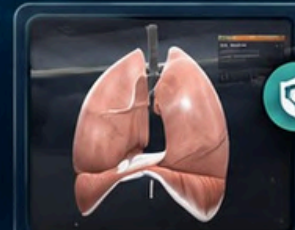
## Microscopic World

Dive into the microscopic world in full 3D.



## Physiological Function

Learn how body systems function together.



## Organ Systems

Study the structure and function of major organs.



### Immersive Learning

Experience biology like never before with VR/3D simulations.



### Aligned with Curriculum

Content designed to support educational standards.



### Engaging & Interactive

Boost curiosity and deepen understanding.



### Safe & Accessible

Learn in a risk-free virtual environment.



### Anywhere, Anytime

Access virtual labs from any device, anytime.



# Primary Science XR Virtual Lab

Explore. Discover. Understand.



Magnetism



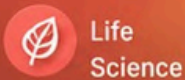
Chemistry



Biology



Primary Science



### Life Science

Explore living organisms and their life processes.



### Solar System and Space

Discover planets, stars, and the vast universe.



### Space Exploration

Experience space missions and rover exploration.



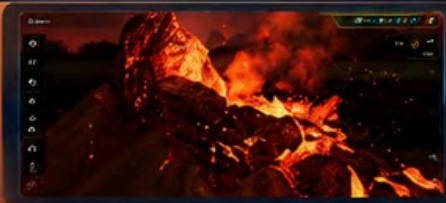
### Physical Science

Understand forces, motion, energy, and mechanics.



### Geology and Volcanoes

Learn about Earth's structure and volcanic activity.



### Rocks and Minerals

Examine different types of rocks and their properties.



### Earth and Space Science

Study Earth systems and space-related phenomena.



### Weather and Climate

Explore weather patterns and climate systems.



### Technology and Engineering

Design, build, and test innovative machines and structures.



### Atoms and Molecules

Visualize atomic structures and molecular models.



### Cells and Microbiology

Explore cells, microbes, and their role in living things.



### Engineering Mechanisms

Learn how machines and mechanisms work together.



### Immersive Learning

Engage students with realistic XR experiences.



### Interactive & Engaging

Encourage curiosity through hands-on activities.



### Safe & Accessible

Learn and experiment in a risk-free environment.



### Aligned with Curriculum

Content designed to support learning goals.



### Anywhere, Anytime

Access virtual labs on any device, anytime.

# Smart STEM Classroom

Innovative Learning. Limitless Possibilities.



01

## Smart Classroom Teaching Zone

Interactive teaching with immersive visualization.



02

## Smart Classroom Management System

Centralized control for seamless management.



03

## Smart Classroom Students Interaction Zone

Collaborative learning through immersive experiences.



Engaging & Immersive Learning Experience



Collaborative & Hands-on Activities



Safe, Secure & Easy to Manage



Data-driven Insights for Better Outcomes



Empower Students. Shape the Future.

# VRealab XR Lite Version

## Use Cases



Immersive. Interactive. Impactful.



### 01 Library

Explore vast resources in an interactive and immersive virtual library.



### 02 Science Corner

Visualize complex concepts and conduct virtual science experiments.



### 03 Steam / Makerspace

Design, build, and innovate in a virtual creative environment.



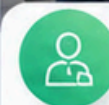
### 04 Interactive Classroom

Engage students with dynamic lessons and real-time collaboration.



### 05 Subject-specific Lab

Practice and experiment in safe, interactive subject-focused labs.



### 06 Teaching Research Group

Collaborate, present, and solve problems together in virtual meetings.



Empower Education with XR. Inspire the Future.



Immersive Learning



Collaborative Environment



Safe & Accessible for All



Better Engagement Better Outcomes

## Experiment classification

Secondary school

Physics

- Acoustic
- Optics
- Electricity
- Thermology
- Dynamics

Chemistry

Biology

Pre-University school

## Experiment Library

Secondary school / Physics /

Search experiment...



**What will happen when cold water is poured?**

Views 298



**The Dancing Little Guys**

Views 211



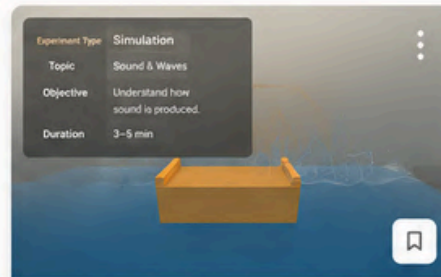
**Will a ping-pong ball fall?**

Views 157



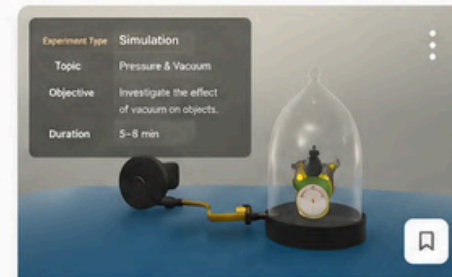
**An egg floats on saltwater**

Views 115



**How does sound come about?**

Views 100



**An alarm clock in a vacuumed space**

Views 129

Showing 1-6 of 24 experiments

Show 6 per page



## Description



### VRealab classroom management system

- The software supports broadcast control through account login control system, and supports the issuance of shutdown, restart, volume adjustment, screen brightness, screen off and other control commands to all online devices or a certain device.
- The software provides real-time monitoring functions for online devices and supports the control of the use of applications in online devices. According to the teacher's teaching needs, it can issue instructions to open or close specified applications to all online devices or a certain online device.
- The software can retrieve the real-time screen of the student's online device according to the teacher's teaching needs and present the screen from the operator's perspective.
- Each license. Support up to 25 VR headsets.



### Pico Neo 3 VR Headset All-In-One Virtual Reality Headset

- 4K HD screen (3664X1920)
- 90HZ refresh rate
- Storage: 256GB
- Head & hand 6Dof interaction
- Fresnel lens, FOV: 98°



### Server and Wi-Fi Router for VRealab STEM Classroom

- CPU: ≥Intel Core i5 10th generation
- Memory: ≥16G
- Hard disk: ≥250G solid state drive (SSD)
- Graphics card model: integrated graphics card
- External wireless WiFi router x 1

مجموعة مدرن اليانس ص ب 140611 جدة 21333 هاتف 2601222 فاكس 6319945  
 Modern Alliance Group, P.O. Box 140611 Jeddah 21333 Tel. 2601222 Fax 6319945  
[www.mag.sa](http://www.mag.sa) | [info@mag.sa](mailto:info@mag.sa)



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[info@mag.sa](mailto:info@mag.sa)



+966 55 109 1199

4734 Abdullah Suliman Rd Alfya'a Dist 22246-6472