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REALITY

Educational Virtual Reality Experiences



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Take Any Student, Anywhere, at Any Time

ASFAN's Educational Virtual Reality solutions transform learning into a fully immersive journey where students explore, experiment, and understand complex scientific concepts in engaging 3D environments. Each experience recreates real-life laboratories, natural phenomena, and interactive simulations that make abstract lessons tangible and memorable. Learners observe, interact, and analyze with complete safety while developing critical thinking and scientific reasoning. These immersive educational modules enhance comprehension, boost engagement, and provide a realistic learning environment that bridges theory and practice.



How VR Learning Benefits Learning?

Compared to learners taught with more traditional teaching methods, learners using a VR headsets are:

4x
More Focused

4x
Quicker to Retain Knowledge

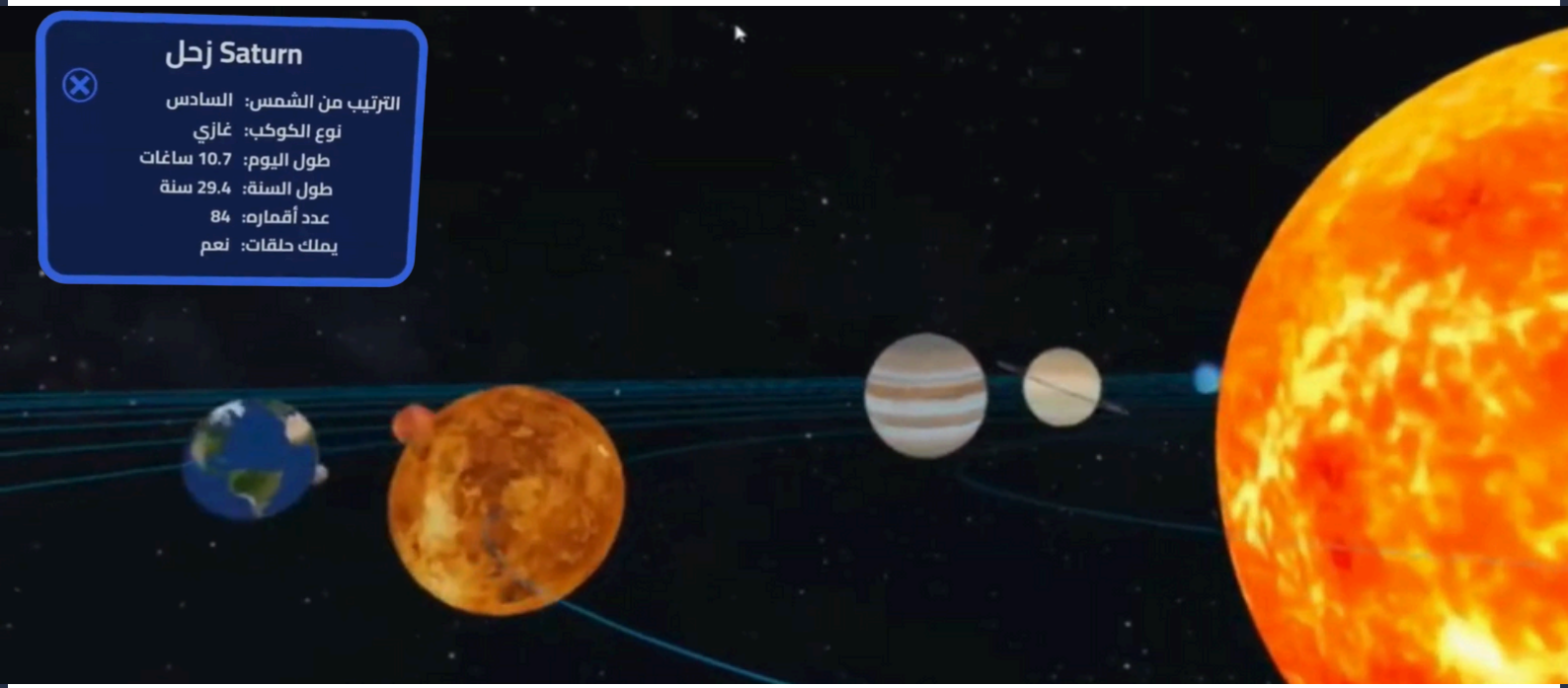
275%
More Confident in Applying Learnings

source : pwc

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Solar System

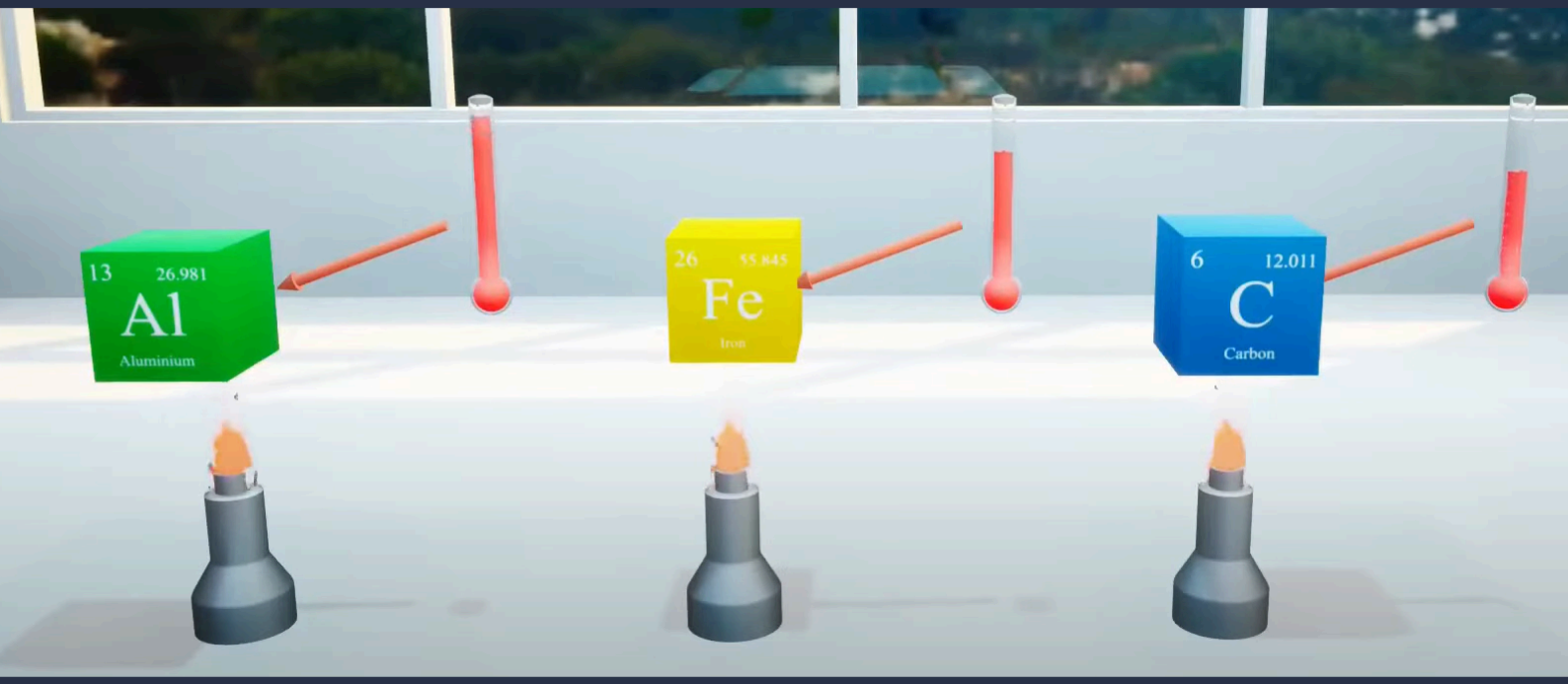
In this immersive experience, the learner enters the solar system and explores each planet in an interactive 3D environment. By selecting any planet, an informative panel appears displaying detailed facts about its composition, size, atmosphere, and unique features. The learner observes planetary motion, orbital paths, and the relationship between planets and their moons when present. The experience provides a clear visual understanding of how celestial bodies move within the solar system and how gravity connects them in one harmonious system.



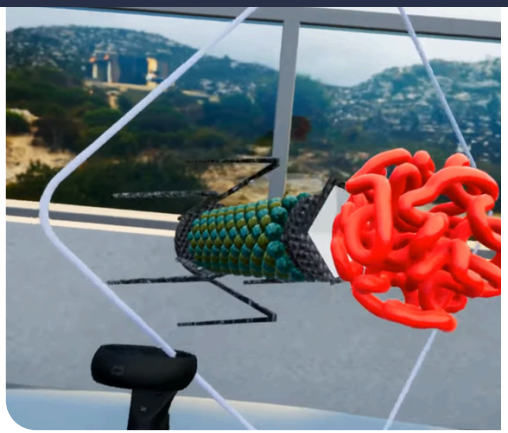
Science

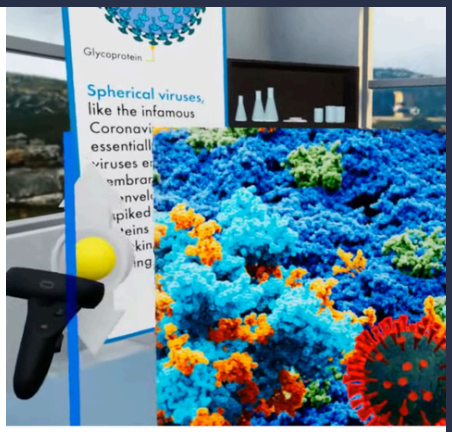
In the Science experience, students explore foundational scientific concepts through interactive virtual labs and demonstrations. Learners engage with experiments illustrating forces, motion, energy transfer, and matter states in a safe, immersive environment. They develop scientific thinking by observing cause-and-effect relationships, manipulating variables and drawing conclusions. They build confidence in scientific inquiry and understand how abstract concepts link to real-world phenomena.











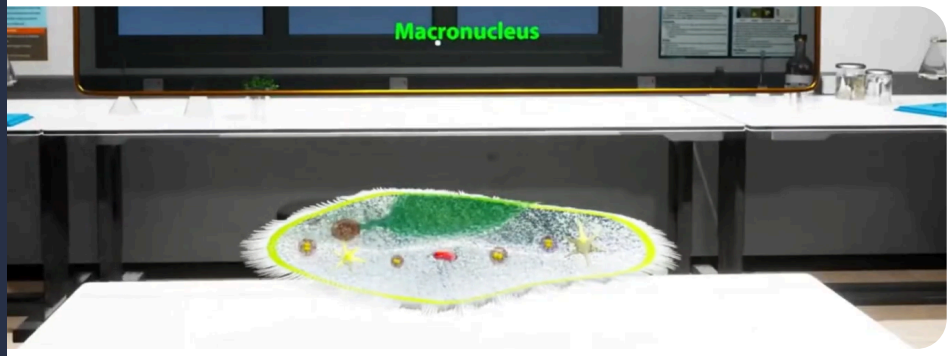
Biology And Virus

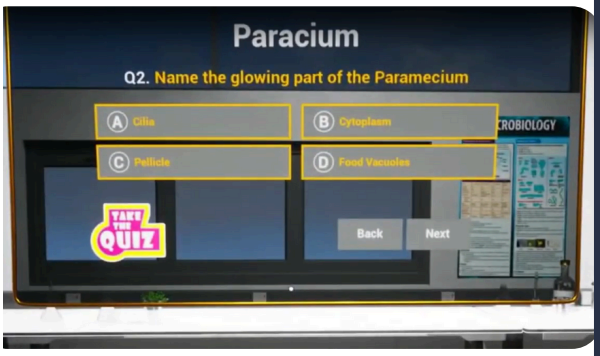
This educational VR experience allows learners to explore the microscopic world of cells, microorganisms, and viruses in an immersive 3D environment. The simulation helps students understand complex biological structures and visualize how viruses interact with living cells. By observing detailed cellular components and viral behavior, learners grasp essential concepts such as infection, transmission, and immune response. The experience provides a safe and engaging platform where users can analyze biological processes that are difficult to observe in traditional classrooms. It enhances comprehension of microscopic life, supports interactive learning, and demonstrates how biology and virology connect to real-world health and environmental systems.



Bio Lab

In the Bio Lab experience, learners enter a virtual biotechnology environment where they handle genetics, microbiology, and laboratory equipment in 3D. They carry out tasks like examining DNA structure, preparing slides, isolating cultures and interpreting results. They learn proper lab workflow, sterile techniques, data interpretation, and how microscopic processes tie into macroscopic biological systems.





Physics

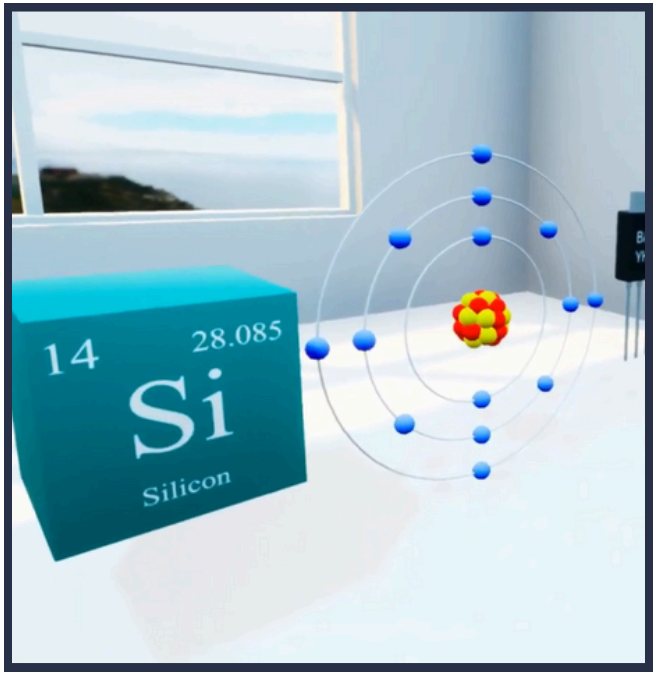
The Physics experience enables exploration of experiments and phenomena too hazardous or impractical for a regular lab. Learners engage with virtual setups demonstrating electromagnetism, quantum behaviour, waves, forces and motion. They manipulate parameters and observe the outcomes—such as collisions, oscillations, fields and energy transformations. They gain intuitive understanding of physical laws by interacting directly with visuals and simulations.

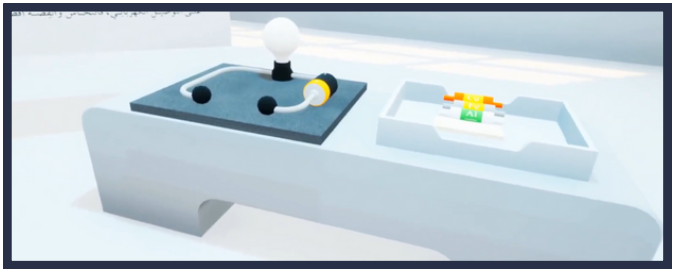




Chemistry

This experience gives students access to a safe virtual chemistry environment, where they perform reactions, mix reagents, observe molecular interactions, and explore hazardous materials without risk. Learners observe how chemical bonds form and break, how reactions proceed, rates of reaction, and energy changes. They develop laboratory-skills awareness, chemical safety understanding, and a deeper appreciation of how chemistry underpins everyday materials



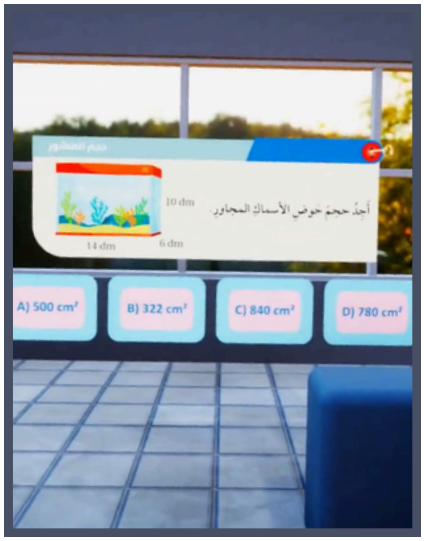




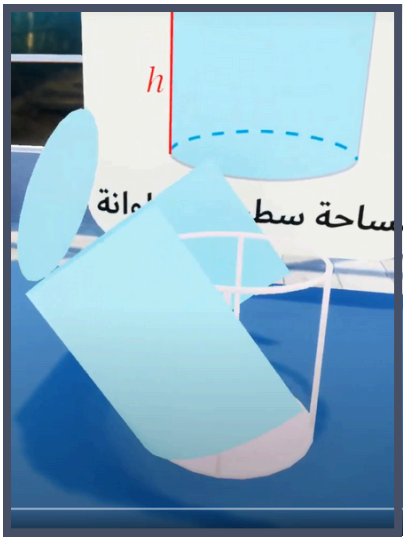
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Math

In the Math experience, learners engage in immersive scenarios where mathematical concepts become tangible. They measure distances, angles, volumes and other metrics in 3-D spaces. They solve geometrical problems by navigating through shapes, visualise algebraic functions, and apply statistics or probabilities in contextualised environments. The experience builds spatial reasoning, problem-solving ability and comfort with abstract mathematics through direct interaction.







Animal Life Cycle

This experience guides learners through the life cycle of various species in their natural habitats. Students observe birth, growth, reproduction, and death phases of animals, trace migration patterns, and see how environmental factors influence each stage. They learn about species adaptation, ecological interactions, food chains and the impact of changes in habitat. The immersive context deepens understanding of biology and ecology.

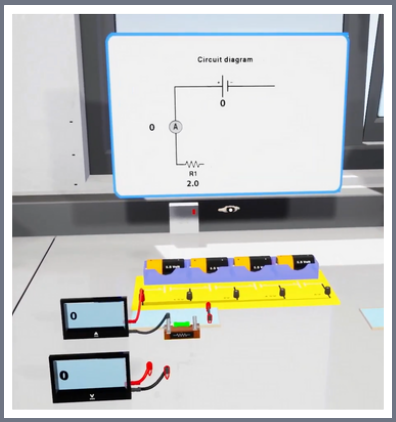


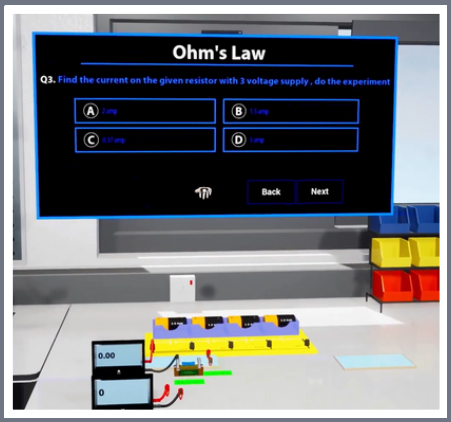


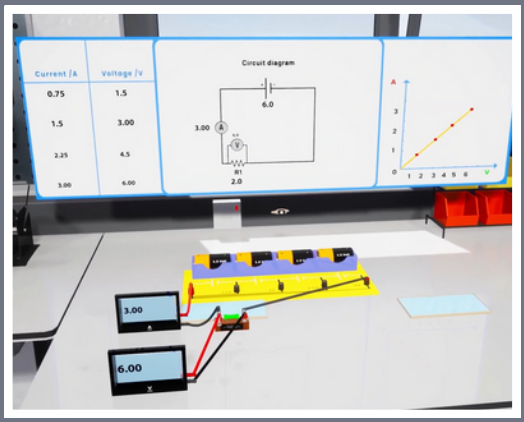
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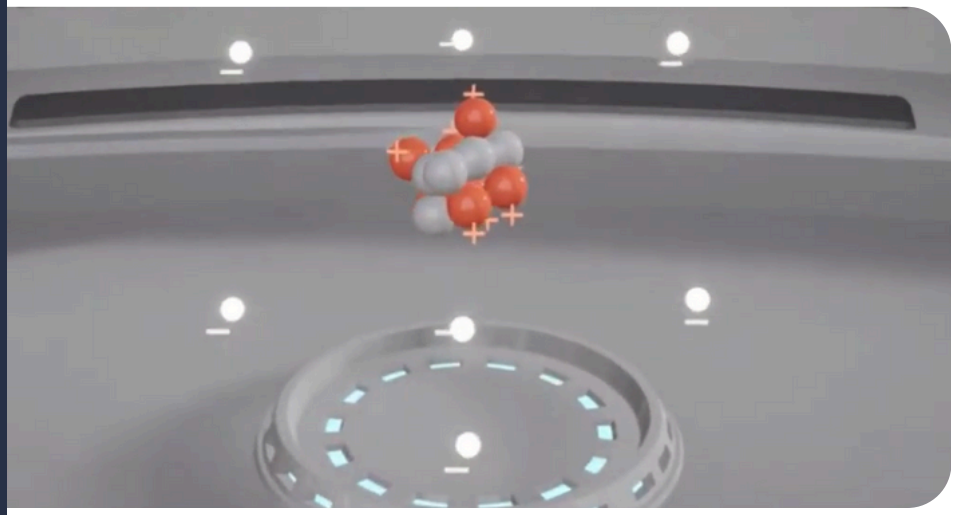
Electricity Lab

In the Electricity Lab experience, learners simulate working with electrical components like resistors, capacitors, batteries, circuits and wiring in a virtual lab setting. They build series and parallel circuits, test behaviour under load, troubleshoot faults and learn safe handling of electrical systems. Learners gain practical insight into how electricity flows, how components combine, and how electrical design and safety standards apply in real systems.



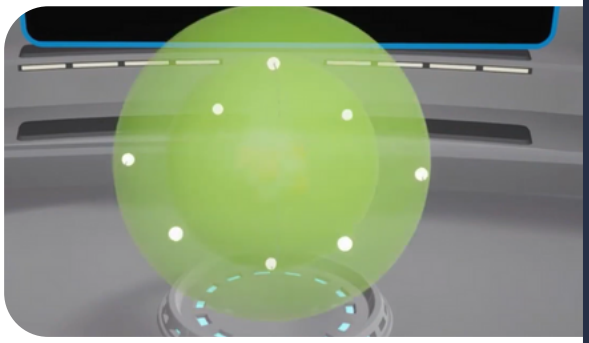


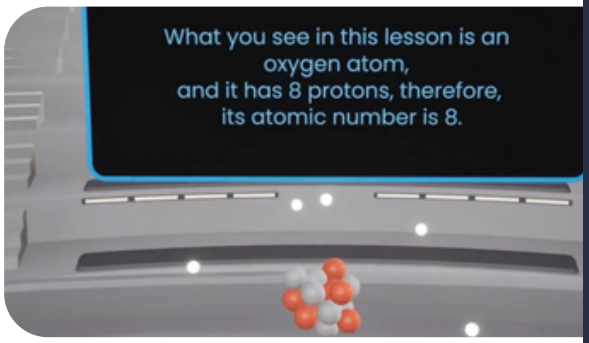




The Atom

The Atom experience immerses students into the atomic scale, where they visualise atoms, electrons, nuclei and subatomic interactions in 3D. Learners explore electron orbitals, atomic bonding, isotopes, ionisation and nuclear processes in a virtual space. They understand how atomic structure governs chemistry and material properties, and how fundamental particles interact to build the matter around them.





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