VICTORYXR

MR EXPERIENCE

TEACHER SUPPORT GUIDE

Mixed Reality Organs

(MR Experience)

TARGET GRADE
Middle / High School Biology, Anatomy & Physiology

TOPIC
(Organ Structure, Biological Function, Mixed Reality Spatial Science)

1 Learning Objectives & Assessment Goals

What This Teaches:

- **Organ Morphology & Micro-Anatomy:** Detailed inspection of human organs rendered in 3D spatial mixed reality overlaying the physical classroom.
- **Inquiry-Driven Science:** Leveraging interactive conversational AI to ask deeper, context-specific physiological questions about individual organs.
- **Spatial Anatomy Literacy:** Understanding organ scale, structural features, and functional characteristics within a physical museum-style layout.

What This Assesses:

- **Informational Synthesis:** Ability to read written text descriptions and synthesize key concepts with real-time AI conversation.
- **Inquiry Formative Skills:** Quality of student-driven questions posed to the AI scientist regarding organ health, function, and pathology.
- **Spatial Identification:** Identifying and describing key anatomical features across various displayed organ models.

2 How This Supports Students on Their Learning Journey

Mixed Reality Spatial Awareness

Blends virtual 3D organ models directly into the physical classroom space, allowing students to walk around, inspect, and interact with objects as if visiting a real science museum.

Differentiated Inquiry Support

Students who learn best visually can examine detailed 3D texturing and organ structures, while auditory and conversational learners can engage directly with the AI scientist.

Self-Guided Exploration

Eliminates rigid, linear pathways; students navigate the interactive exhibit at their own pace based on current learning goals or natural curiosity.

3 Key Instructional & Gameplay Components

Feature / Tool	Student Action & Task Execution	Outcomes & Educational Value
Museum Exhibit Stations	Walk around the physical room to view various organ exhibits overlaid in Mixed Reality.	Provides immersive, tactile-like interaction with life-sized or scaled 3D organ models.

Feature / Tool	Student Action & Task Execution	Outcomes & Educational Value
Text Information Panels	Read organ descriptions displayed next to each exhibit station.	Delivers foundational biological facts, organ functions, and key vocabulary.
AI Scientist	Approach the AI scientist and ask verbal questions about specific organs or functions.	Delivers instant, customized responses for deeper inquiry beyond standard textbook text.

4 Curriculum Integration & Classroom Implementation

When to Use:

Ideal as an **interactive stations lab** during an Organ Systems unit, a **virtual field trip / gallery walk**, or a **review station** prior to practical anatomy exams.

Suggested Session Format:

STEP 1
Warm-Up
5 mins

Assign students 2–3 target organs to locate and research within the MR museum.

STEP 2
MR Lab Experience
15–20 mins

Students navigate the physical space, read the informational panels, and interview the AI scientist to gather detailed facts.

STEP 3
Debrief & Sharing
10 mins

Have students share one deeper fact or answer provided by the AI scientist that was not present on the standard text panel.