

Iwo Jima Memorial3D

Teaching Global Landmarks, American History, and Architecture through 3D simulation

Lesson

Teaching Global Landmarks, American History, and Architecture through 3D simulation

Objectives

Students will gain a basic understanding of the Iwo Jima Memorial through 3D simulation and visualization.

Activity

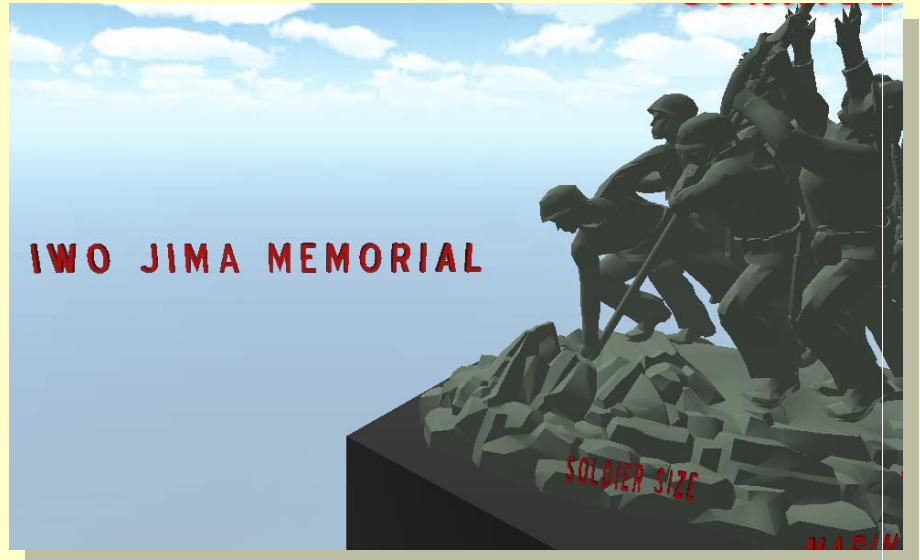
Students travel through the Iwo Jima Memorial in real-time 3D, helping them to visualize and understand its structure, function, and symbolic importance.

Materials

Iwo Jima Memorial3D Homepage

(cut and paste URL into browser, or Ctrl+click on picture above)

<http://www.sunrisevr.com/iwojimamemorial3d>



3D Simulation and Investigation

3D simulations are designed to make subject matter more engaging to today's technology-savvy kids, and help them bridge the gap between the "concrete" world and the abstract world of concepts. When students experience complex subject matter in real-time 3D it becomes clearer. Students learn best when they are actively immersed in subject matter from a variety of different viewpoints; 3D simulation is designed to help students visualize difficult ideas and objects through investigation at any scale (atomic, cellular, planetary, conceptual, etc), and doing things that would normally be impossible.

Required Technology

- PC/Tablet

Optional Technology

- Projector
- Multiple Computers
- Internet Connection

Grouping

- Large Group Instruction
- Small Group Instruction

Staging

Check computer/Tablet for Internet access if needed

Procedure

1. Access program
2. Pick a lead student navigator to control movement through the 3D environment
3. Pick a lead student reader to read information about the Iwo Jima Memorial as it appears on-screen
4. Begin the lesson by asking students what they already know about the Iwo Jima Memorial; write responses on the board
5. Review basic facts about the Iwo Jima Memorial including:
 - The memorial honors soldiers who took part in the World War II Battle of Iwo Jima
 - The memorial is located across the Potomac River from Washington DC
6. Start traveling through the program, facilitate discussion by asking students where the class should go.
7. Use the 3D simulation as a visual aid; explain information as needed
8. Have students pay special attention to:
 - The number of soldiers depicted in the statue
 - The size of the soldiers
9. Have a final wrap-up with students with a question and answer period about the Iwo Jima Memorial. Ask them about the Battle of Iwo Jima, and why the memorial was built.

Optional Activity: 3D Scavenger Hunt + Discussion

Have students find a particular part of the Iwo Jima Memorial, such as the Flag Pole. If students are on multiple computers, have them “race” to the part of the Iwo Jima Memorial the teacher wishes to highlight. Once students find/arrive at the location, the teacher may commence discussion. Repeat in other areas of the simulation as desired to build understanding.

Homework/Review

Students may also access the program outside the classroom to supplement textbook questions

Functional Notes

1. The program is available on multiple platforms
2. If using the program online, please ensure the Unity3D Player is installed on the computer; through the Internet Explorer Browser; download the latest at <https://unity3d.com/webplayer>.
3. If you see something in **red** you can probably click on it
4. For ease of use you can go through most 3D objects, and even the ground
5. The school library can request and access programs (free) at www.sunrisevr.com for off-line use via PC and Mac if there is no internet connection