World Trade Center3D

Teaching September 11, 2001 and American History through 3D simulation

Lesson

Teaching September 11, 2001 and American History through 3D simulation

Objectives

Students will gain a basic understanding of the World Trade Center through 3D simulation and visualization.

Activity

Students travel through the World Trade Center in real-time 3D, helping them to visualize and understand its structure, function, and symbolic importance.

Materials

World Trade Center3D Homepage (cut and paste URL into browser, or Ctrl+click on picture above)

http://www.sunrisevr.com/worldtradecenter3d



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 World Trade Center as it appears onscreen
- 4. Begin the lesson by asking students what they already know about World Trade Center; write responses on the board
- 5. Review basic facts about the World Trade Center including:
 - The World Trade Center was tallest building in the world upon completion
 - The tower was destroyed on September 11, 2001
- 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 materials used to build the towers
 - The design of the tower
- 9. Have a final wrap-up with students with a question and answer period about the World Trade Center. Ask them why the buildings were important and what they symbolized

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Optional Activity: 3D Scavenger Hunt + Discussion

Have students find a particular part of the World Trade Center, such as the antenna If students are on multiple computers, have them "race" to the part of the World Trade Center 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

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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