United States Geography3D

Teaching United States Geography, World Geography, and Social Studies through 3D simulation

Lesson

Teaching United States Geogrpahy, World Geography, and Social Studies through 3D simulation

Objectives

- Students will gain a basic understanding of US Geography through
 Simulation and visualization
- 2) Students will gain a deeper understanding of the major natural features of the United States

Activity

Students travel across the United States in real-time 3D, helping them to visualize and understand US Geography

Materials

United States 3D Homepage

(click or cut and paste URL into browser)

http://www.sunrisevr.com/unitedstatesgeography3d



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 United States as it appears on-screen
- 4) Begin the lesson by asking students what they already know about the major features of US Geography; write responses on the board
- 5) Review basic facts about Africa including:
- The United States is the world's third largest country
- The United States is located in between the Atlantic and Pacific Oceans
- 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 Rocky Mountains
- The Great Lakes
- The Regions of the United States
- 9) Have a final wrap-up with a question and answer period. Ask students about the major features of the US and what they found most interesting with descriptions of the terrain.

Optional Activity: 3D Scavenger Hunt + Discussion

Have students find a particular part of the United States, such as the Appalachian Mountains. If students are on multiple computers, have them "race" to the part of the US 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

- The program is available on multiple platforms
- 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.
- If you see something in red you can probably click on it
- For ease of use you can go through most 3D objects, and even the ground
- 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

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