China Geography3D

Teaching China, World Geography, and Social Studies through 3D simulation

Lesson

Teaching China, World Geography, and Social Studies through 3D simulation

Objectives

- 1) Students will gain a basic understanding of China through 3D simulation and visualization
- 2) Students will gain a deeper understanding of the major natural features of China

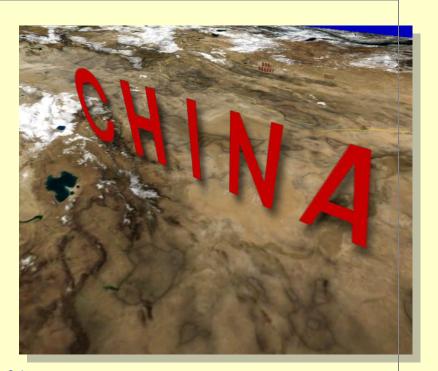
Activity

Students travel across China in real-time 3D, helping them to visualize and understand its landscape and geography

Materials

China 3D Homepage

http://www.sunrisevr.com/chinageography3d



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 China as it appears on-screen
- 4) Begin the lesson by asking students what they already know about the major features of China; write responses on the board
- 5) Review basic facts about China including:
- China is the world's most populous country
- China is located in east Asia on the Pacific Ocean
- 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 Himalayan Mountains
- The Gobi Desert
- The three step structure
- 9) Have a final wrap-up with a question and answer period. Ask students about the major features of China and what they found most interesting with descriptions of the terrain.

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Optional Activity: 3D Scavenger Hunt + Discussion

Have students find a particular part of China, such as the Yangtze River. If students are on multiple computers, have them "race" to the part of the program 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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