

Notre Dame 3D

Teaching the Notre Dame, World Landmarks, and French Culture through 3D simulation

Lesson

Teaching the Notre Dame, World Landmarks, and French Culture through 3D simulation

Objectives

- 1) Students will gain a basic understanding of the Notre Dame through 3D simulation and visualization
- 2) Students will gain a deeper understanding of the importance of the Notre Dame

Activity

Students travel to the Notre Dame in real-time 3D, helping them to visualize and understand its significance and location.

Materials

Notre Dame3D Homepage

(click or cut and paste URL into browser)

<http://www.sunrisevr.com/notredame3d>



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

- Unity3D/Flash-Enabled Computer
- Internet Access

Optional Technology

- Projector
- Multiple Computers

Grouping

- Large Group Instruction
- Small Group Instruction
- Individualized Instruction

Staging

Check computer for Internet access, Unity3D/Flash, and projection 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 Notre Dame as it appears on-screen
 - 4) Begin the lesson by asking students what they already know about the Notre Dame; write responses on the board
 - 5) Review basic facts about the Notre Dame including:
 - It is one of the world's most important buildings
 - It is one of the most important buildings in history
 - 6) Start traveling through the program, facilitate discussion by asking 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:
 - Gothic Style
 - Flying Buttresses
 - Importance in French history
 - 9) Have a final wrap-up with students with a question and answer period about the Notre Dame. Ask them where it is located, what are its distinguishing components, and why it is important.
-

Optional Activity: 3D Scavenger Hunt + Discussion

Have students find a particular part of the Notre Dame, such as the dome. If students are on multiple computers, have them “race” to the part of the building 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

- 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