

TECHNOLOGY PROFESSIONAL DEVELOPMENT LESSON PLAN
Introduction to Google Earth

Title: Introduction to Google Earth – Part 1 of 2

Grade Level: Teacher Professional Development

Curriculum Areas: All

ISTE NETS FOR TEACHERS ADDRESSED IN THIS LESSON:

TECHNOLOGY OPERATIONS AND CONCEPTS.

Teachers demonstrate a sound understanding of technology operations and concepts. Teachers:
B. demonstrate continual growth in technology knowledge and skills to stay abreast of current and emerging technologies.

PLANNING AND DESIGNING LEARNING ENVIRONMENTS AND EXPERIENCES.

Teachers plan and design effective learning environments and experiences supported by technology. Teachers:

A. design developmentally appropriate learning opportunities that apply technology-enhanced instructional strategies to support the diverse needs of learners.

TEACHING, LEARNING, AND THE CURRICULUM.

Teachers implement curriculum plans, that include methods and strategies for applying technology to maximize student learning. Teachers:

A. facilitate technology-enhanced experiences that address content standards and student technology standards.

B. use technology to support learner-centered strategies that address the diverse needs of students.

C. apply technology to develop students' higher order skills and creativity.

D. manage student learning activities in a technology-enhanced environment.

PRODUCTIVITY AND PROFESSIONAL PRACTICE.

Teachers use technology to enhance their productivity and professional practice. Teachers:

A. use technology resources to engage in ongoing professional development and lifelong learning.

B. continually evaluate and reflect on professional practice to make informed decisions regarding the use of technology in support of student learning.

Materials:

Lab computer

Paper

Pen/Pencil

Related Website:

<http://www.earth.google.com>

Procedures:

Please note: Our county currently blocks Google Earth: Here is the most current statement from our county regarding access to this site:

Extreme bandwidth consumption is the reason. We have, however, been discussing this amongst our group. For the time being it will remain blocked.

Hopefully the block will be removed soon. When it is removed this is what I will do with my teachers:

- Have a brief discussion on what google earth is and how it works.
- Demo Google Earth via the LCD Projector.
- Have the teachers log in to the desktop computers and access the internet via Internet Explorer.
- Have the following resources available on the shared drive for the teachers to explore:
 - <http://earth.google.com/intl/en/userguide/v4/>
 - <http://www.gearthblog.com/basics.html>
 - <http://www.gelessons.com/lessons/>
 - <http://www.gearthblog.com/images/images2006/GEmousemat.jpg>
 - http://www.gisuser.com/index2.php?option=content&do_pdf=1&id=12420

In Class Assignment:

This session will focus on becoming familiar with what Google Earth is and what it can do. The teachers are to use the resources given to explore Google Earth and begin thinking of ways it may be used in their subject area. Teachers will be encouraged to work in small groups and share what they discover during this session.

Outside Assignment:

Meet with at least one other teacher in your department. You can meet with larger groups within your department or as an entire department if you prefer. Share with each other ways you have discovered Google Earth could be used in your curriculum area. Demonstrate your knowledge of Google Earth and its application to your area by creating a Google Earth project **related** to your curriculum. Be prepared to share your project during the next Google Earth session (Introduction to Google Earth – Part 2 of 2).

Assessment:

The assessment of this professional development lesson will be done during Part 2 of the two part series “Introduction to Google Earth”. During Part 2, teachers will share with the group their Google Earth projects. After all projects have been demonstrated, there will be whole group discussion on the educational value of Google Earth.

Evaluative/Reflective Paragraph:

(Completed after the assessment phase of this lesson)