

Syllabus: Science Projects on the Internet, Grades 3-5

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Course Overview:

Making use of the **Marco Polo website**, and the sites associated with it, teachers will be explore a number of interactive science projects.

The nature and purposes of different types of projects will be examined, including collaborative, real-time data, and partner projects.

Making use of a collaborative peer process, teachers will select and modify a project for their own use, creating a project timeline, and alignment with NYS standards.

Projected Final Outcome: Teachers will have a complete project for immediate use, will be aware of the many types of Internet science projects available, will have access to the projects created by other course members, and will be in a position to give and receive feedback about project implementation.

Course Objectives:

Participant will be able to:

- search for and identify a science project appropriate for class use, using Marco Polo, and other web resources.
- develop specific learning activities for the desired learning outcomes
- develop assessments and appropriate rubrics for assessing the project
- develop policies appropriate to the student population for the project
- develop appropriate standards for participation and interaction
- align project to appropriate national, state or local standards

Time Management

Science Projects on the Internet is presented as a one credit, 15 hour Professional Development Course.

The time frame for the course is six weeks.

It is necessary then, that you as a participant spend a about of 2-1/2 hours per week time online on readings, postings, group interaction and project development, in order to meet criteria for this course.

As in every course additional time will be needed to complete the course end product.

The following gives estimated times needed for each ONLINE activity:

Week 1 and 2

Introductory Posting, and Reading Group Introductions:

1.5 hours

Exploring Netlinks:

2.0 hours

Readings and reading response posting:

2.0 hours

Week 3

Asynchronous Posting of Role Choices:

0.5 hours

Project Description Readings, and Response Posting:

2.0 hours

Virtual Chat (Synchronous Activity):

1.5 hours

Week 4

Project Search Activity

2.0 hours

Read and Response to Group URL postings

0.5 hours

Week 5

Posting of Personalized Project, aligned with NYS Standards:

2.0

Week 6

Project collaborative responses, posting of fine-tuned final products, Course Evaluations

2.0 hours

This course, **Science Projects on the Internet: Grades 3-5**, will run from **Blank to Blank**.

The course weeks run from Tuesday to Tuesday.

NYS Standards

This course has been aligned with the following New York State Standards:

NYS Standards Addressed:

English Language Arts

1. Language for Information and Sharing
2. Language for Literary Response and Expression
3. Language for Critical Analysis and Evaluation
4. Language for Social Interaction

Mathematics, Science and Technology

1. Analysis, Inquiry and Design
2. Information Systems
3. Mathematics
4. Science
5. Technology
6. Interconnectedness: Common Themes
7. Interdisciplinary Problem Solving

Career Development and Occupational Studies

1. Career Development
2. Integrated Learning
3. Universal Foundation Skills
4. Career Majors