

Creating Project Based Learning In Mathematics

Syllabus



This Item contains all the important information you need to know for successful completion of this course. Please read ALL the information contained here before beginning the course.

Course Description

Content Area: Mathematics/Interdisciplinary

Grade Levels: K-12

Description: This course will provide teachers with new, innovative tools, which they can utilize along with their already established lesson plans. These tools (found on the MarcoPolo web sites using the MarcoPolo search engine) can be used in whole as classroom-ready activities or embedded in their own plans as enhancements, just to put a new twist on a concept, or as extensions of topics. Teachers design a standards-based project for one topic in Math using MarcoPolo resources. Teachers will also design a rubric to score the project and a teacher's plan. Completed projects will include a Teachers' Guide, Student Handout (outline of the project), and Scoring Rubric. NYS Standard: MST.

Dates For This Course

The course will run for six weeks. There are no specific course meeting times. However, there will be very specific due dates for each assignment along the road to completing your project. Please allow enough time to do your online research for the assignments so you will be able to post your results on time. You are expected to logon at least three times each week. You must read the postings from your colleagues and respond back to them. You must also read the postings from the instructor. These postings contain comments about your work and indicate if the work is acceptable or not. This is the conversation that is the online class work.

Note: Completed assignments must be posted by 11:59:59 PM on the day they are due.

Time You Will Need To Complete This Course

The total amount of time you spend to complete all the assignments that culminate with your completed classroom-ready reproducible project will be 15 hours. As with any course you may need additional time to complete the course work and project.

In addition to this time there are some related readings for you to do along the way to help guide you through your project. There is no text for this course. However, you are expected to do the online readings, use your Math curriculum, and the NYS Standards.

Addressing The New York State Standards

One of the goals of teaching Math is for our students to meet the New York State standards for Mathematics at all grade levels. Another is to have our students have an understanding of how to use mathematics in the real world.

One of the objectives of this course is to incorporate a new approach into our teaching in order to help our students meet these standards. The project should be something that will enhance the learning experience of your students in a particular topic.

The approach taken in this course is to add a new dimension to teaching Math. That is to have our students solve real world problems, therefore making the math more meaningful to them. By choosing a topic from the Math curriculum that will extend a particular unit we hope to have our students better remember what they have been taught. To accomplish this we will have our students complete real world projects. The objective is to have our students apply what we are teaching them in the classroom to real world situations.

For example one project might be: Finding Geometry In Architecture Around The World. This project will not only reinforce concepts in Geometry but can also include Art and ELA.

If our students can be taught in a way that will enable them to remember what we are doing in the classroom by applying it to real world situations, then it is expected that they will have improved scores on state assessments.

After you choose your project and establish your objectives you will be aligning them with the New York State Math Standards. You can also list any standards from other disciplines that might be addressed by your project.

So You Need To Speak To Me

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Office Location: None

Office Hours: Monday-Thursday 2:30 - 3:30 by telephone only - this is a bit tricky

Contacting the Instructor - Best way to be in touch is via Email. I will be happy to answer your questions or refer you to other sources that will be of help. You can also post any questions in the Item: "Help". This is where the instructor or your colleagues can offer assistance and suggestions.