

## **Elementary Math Unit Exploring Egypt – Elementary Geometry**

### **Dates of Course**

This course is set to run: TBD

### **Course Description**

Drawing and expanding on students' prior knowledge of social studies:

This course is designed to motivate learning in the content area and investigate the ways computer technology enhances the learning process. Topics for math investigation include media exploration of the great pyramids of Egypt, a Smartboard or desktop computer, projector and drop down screen, and Illuminations Web resources to emphasize various geometric solids and their properties in reference to the Swiss mathematician Leonard Euler's and his formula, which proved the relationship between the number of vertices, faces, and edges of polyhedra known as Euler's Formula.

[http://illuminations.nctm.org/tools/tool\\_detail.aspx?id=70#](http://illuminations.nctm.org/tools/tool_detail.aspx?id=70#)

### **Course Objectives:**

Through a hands-on approach participants will be able to:

1. Recognize the value of integrating technology as a resource tool in the dissemination of content area instruction.
  - *Identify and integrate appropriate technology best practices to support content area instruction.*
2. Understand the potential to meet each child at his or her starting point and ensure substantial growth.
  - *Create a unit of study that supports learning activities, which promote student success.*
  - *Recognize instructional strategies that emphasize learning in the content area and that meet the varied learning styles of students.*
3. Construct classroom best practices that are responsive to student learning in the content area and that meet the needs of struggling and advanced learners.
  - *Construct a unit plan that supports content area objectives.*

### **NYS Standards Addresses**

#### **New York State Standards for Math, Science and Technology:**

Standard 3 – Students will understand mathematics and become mathematically confident by communicating and reasoning mathematically, by applying mathematics in real-world settings, and by solving problems through the integrated study of number systems, geometry, algebra, data analysis, probability and trigonometry.

Standard 2 – Students will access, generate, process, and transfer information using appropriate technologies.

#### **National Technology Standards:**

Standard 3 – Students use technology tools to enhance learning, increase productivity, and promote creativity.

Standard 5 – Students use technology tools to process data and report results.

Standard 6 – Students use technology resources for solving problems and making informed decisions.

### **Contact Information**

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### **Prerequisite Skills/Requirements**

1. Students should have a basic understanding of integrating computer applications as part of the instructional process.
2. Students should be familiar with the Marco Polo Web site and the United Streaming WLIW 21 Web site.
3. Students should be able to access the Internet and use e-mail

### **Road Map**

See Separate document