Identifying, describing, and classifying 3-D solids and constructing a 3-D model

Course: Math Structure II
Instructor: William Hammack
Team Members:
Anthony Lopez
Brooke Marshall
Jody Bullard
Introduction

The goal of this team is to work together and with a nearby school teacher to develop a lesson plan, implement the lesson in the classroom, with the use of technology and a manipulative, and to use a before and after assignment to see how much the students learned.
Objectives

Community:
The school teacher we are working with is Mrs. Inman, a fourth grade teacher at Bonnie Grimes Elementary school in the Rogers school district.

Curriculum:
We have worked with the teacher and received a standards sheet from her that lists what needs to be learned from 3/8/10 to 5/11/10 and narrowed down our choices to what the teacher will be working on during the last week of March.

We plan to send an assignment home with students a day before we present the lesson, so we can see students’ before knowledge. We will then present the lesson in the classroom, while using technology and a hands-on manipulative. We will then send home an assignment, so that we can determine how much has been learned by the students.

We will be teaching standards G.8.4.1 and G.11.4.1 from the Arkansas frameworks
Objectives

Technology:

We used Computers, Internet, Smart Board, and Camera, Smart Board, software, Photoshop, and Microsoft PowerPoint.

We used the Smart Board and software for interactive learning. We used Photoshop for our photos and graphics for final presentation. We used PowerPoint to present our final project.
Objectives

Skills:

- Team building through communication and organization.
- Individual growth by developing life long skills such as: work ethic, participation, dedication, and time management.
- Technology awareness and research will help us better understand the resources that are available to teachers.
- Communication skills to both peers and children will be developed through this project.
- Organizational skills as a group and as an individual will be tested and refined through this project.
Methodology

To accomplish this task we first came to an agreement as a whole what grade level we would like to teach for this project. We then found a teacher and principal that would let us participate at their school.

Once we found the school and teacher that was willing to work with us, we needed to come up with a topic that had to do with math and was developmentally appropriate for that age group. Then we came up with a lesson plan, which we then presented to the class.
Methodology

We presented our lesson to the class in the last week of March. In the three weeks leading up to the lesson presentation we got together and collaborate on the lesson preparation and divide our duties.

Brooke Marshall - Photos/Part of Lesson preparation, Photoshop, develop PowerPoint ideas, homework page for students/ finalized Lesson plan

Jody Bullard - Photos/Part of Lesson preparation, presentation, a take home sheet to send home with students to get an idea of students’ knowledge of topic before lesson begins

Anthony Lopez - Photos/ Part of Lesson preparation and presentation/ research on Smart board/ Find Cooperating teacher/ finalize the PowerPoint presentation
Expected Outcome

- We expect the kids to come out of this lesson with a greater concept of three-dimensional shapes.
- We will put together our project on a PowerPoint presentation to present to our class.
References

- http://nlvm.usu.edu/en/nav/frames_asid_128_g_2_t_3.html?open=instructions&from=category_g_2_t_3.html