

## Interdisciplinary Lesson Plan: Exploring Shapes

**Name:** Sahara Kipfer

**Date of Lesson:** December 8, 2008

**Number of students:** 12

**Subject Areas:** Mathematics and Physical Education

### **Standard(s):**

Mathematics:

Standard 4 (Geometry)- Students identify common geometric shapes, classify them by common attributes, and describe their relative position or their location in space.

1.4.1 Identify, describe, compare, sort, and draw triangles, rectangles, squares, and circles.

Physical Education:

Standard 1- Demonstrates competency in many movement forms and proficiency in a few movement forms.

Standard 2- Applies movement concepts and principles to the learning and development of motor skills.

### **Performance Objectives:**

- C- The students will display an understanding of shapes by forming the jump ropes into different figures with 100% accuracy.
- A- The students will demonstrate the ability to cooperate with their peers by respecting everyone's personal space throughout the duration of the activities.
- P- The students will demonstrate jumping over a jump rope by taking off with one or two feet and landing on both feet with 100% accuracy.

### **Equipment/Materials:**

12 jump ropes, stereo with cd player and appropriate music to play, self-stick notes, softball, picture of a pyramid, and a folder.

### **Introduction/Set Induction:**

Today we are going to learn about shapes. Can you name any shapes? Shapes are all around us, they create the objects that we use everyday. What objects are in the shape of a square (self-stick notes), circle (softball), triangle (pyramid- I will have a picture of a pyramid) and rectangle (folder)?

### **Explanation and Demonstration:**

Jumping is when you take off with one or both feet and land on both feet. Remember to swing your arms forward as fast as possible, bend your knees, on yours toes, land lightly with bent knees, and jump up and try to touch the ceiling. The teacher can then demonstrate how to properly jump, that way the students know what is expected of them.

### **Guided Practice Activity:**

The students can now pick up one jump rope for their own use. They will be asked to find a space of their own on the gym floor and to lay their jump rope horizontally in front of them on the ground. Next they will be asked to continually jump over their own jump rope for at least one minute.

### **Group Activity:**

- The teacher will explain the directions of the activity, in which all the jump ropes should be left where they are on the gym floor while the students gather around the teacher for the explanation. Once the students understand the activity they will be asked to find a jump rope that was left on the ground

from the previous activity. The area that the jump rope encases is the students' personal space that they will use to form their shape. The directions of the activity are:

- The students are to form a shape, that was mentioned in class (square, circle, triangle, or rectangle), with their jump ropes.
- Once the students have formed their shape they will be asked to explore it by jumping in and out of their shape and/or by jumping along the outline of their shape.
- Next the teacher will play music while the students perform a locomotor skill around the different shapes on the gym floor. When the music stops the students are to find a new shape to explore. This part of the activity can be repeated several times so that the students have a chance to explore a variety of shapes.

### **Closure:**

Ask the students the following questions:

- What shapes did we learn about today?
- Can you think of any other shapes that we did not talk about in class?
- How are shapes involved in our everyday life? (They form the objects that we make use of; for example, our shirts have a circular whole so that our heads can fit into the shirt.

### **References:**

Indiana Department of Education (2008, November). [Indiana Standards and Resources](#)

2008: Mathematics [On-line]. Available: dc.doe.in.gov/Standards/AcademicStandards/PrintLibrary/docs-math/2006-math-grade01.pdf

Indiana Department of Education (2008, November). Indiana Standards and Resources

2008: Physical Education [On-line]. Available: dc.doe.in.gov/Standards/AcademicStandards/PrintLibrary/docs-physed/2001-06-18-physicaleducation.pdf

Manning, C. (2000, May). Classroom Teacher Integrate: “Exploring Shapes” [On-line]. Available: pecentral.org/lessonideas/ViewLesson.asp?ID=1116

Pangrazi, R. P. (2007). Dynamic Physical Education For Elementary School Children (15<sup>th</sup> ed.). San Francisco, CA: Pearson Education Inc.