

Topic: math, plane geometric figure

Overview

In this lesson students will learn to recognize a plane geometric figure in their environment and how to form the shape.

Grade K

Time Allotment

Two 15-minute periods

Learning Objectives

On completion of this lesson students will be able to

- identify, describe and draw a circle.

This lesson addresses Va. SOLs Math K.11

Media Components

- Video clip - [Animal Colors and Shapes](#). Discovery Channel School. 2005. unitedstreaming. 18 October 2005 <http://wvpt/unitedstreaming.com/index.cfm>
Segment Used: Circle (1:08)
- Computers
- TV
- Interactive whiteboard (e.g., SmartBoard)
- Website:
Buzzing with Shapes. Math Resources Grades K-2, D. Geometry, <http://www.huneycutt.biz>
- Webcam www.visuallink.com

Materials and Student Handouts



- 12" x 12" whiteboards (between 10 and 15)
- Expo markers
- Erasers
- Four computers

Teacher Preparations

- Prepare equipment
- Download, preview, and cue video clip
- Collect whiteboards, markers and erasers for assessment
- Bookmark *Buzzing with Shapes* and visuallink.com

Introductory Activity

Focus: Today we are going to learn about a shape we see all the time. It is a circle. It is a closed curve. Does anyone know what a circle looks like?

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Play: The video clip, Animals Colors and Shapes starting at .00 where the person says, “A line that has no beginning.”

Pause at :13. Audio Cue: “A circle is perfectly round.” Visual Cue: A blue circle is formed.

Follow-up: So what does a circle look like? Let’s make a circle in the air, on your hand and on the back of your neighbor.

Learning Activities

1. Focus: We will be drawing circles on the SmartBoard.

Activity: In small groups of four the students will use the SmartBoard to demonstrate formation. Each student will form circles on the SmartBoard. While students are waiting to use the SmartBoard 12”x 12” whiteboards can be used at the tables.

Follow-up: The teacher will watch and correct formation when necessary.

2. Focus: Identify circles around the school.

Activity: Go on walk around the building. Have student the number of circles they find.

Follow-up: Have students illustrate two places they saw circles.

Culminating Activities

The students will work on the computer game *Buzzing with Shapes*..

Focus: In this computer game there will be many circles. Every time you see one raise your hand quietly while tracing it with your finger.

Activity: Play the shape computer game and have the students point out the circles and trace the circle on the monitor. Ask questions such as, “What were you looking for in the game? Show me what a circle looks like in the air. Why didn’t you point / click on this shape? Does a circle have sides?

Is a circle an open or closed shape?

Follow-up: The teacher will periodically point to a circle during the game and ask for name recall.

Assessment

- Have the four basic shapes drawn on the whiteboard. Ask the student to point to the circle. Individually ask each student to draw a circle on a whiteboard and describe the shape formation.



Community Connections

- Log onto the community webcam to locate circles in the environment. www.visuallink.com
- Neighborhood walks to look for circles on signs and buildings.

Cross-Curricular Extensions

Language Arts

- Create an animal or other creation from different sized circle. Dictate or write 1-3 sentences about the creation.

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Art

- Make a circle mobile

About the Author

Maryann Rumsey is a kindergarten teacher at Frederick Douglass Elementary School in Winchester, Virginia.

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