

Cinthia Araujo, Juana Maguellal, Mytalli Hermon, and Rusty Anglin

Group Empacts Project, Math Structures II, Fall 2022 Dr. William Hammack, Instructor Northwest Arkansas Community College Bentonville, AR 72712

Introduction

We are a group of NWACC students from Dr. Hammack's Structures of Mathematics II class working with a K-6 mentor at Westwood Elementary School.

Our K-6 Mentor is Mrs Caballero, kindergarten teacher at Westwood Elementary in Springdale.

This is part of the NWACC EMPACTS project where pre-service education students develop an activity and lesson plan for grades K-12. The project also affords the opportunity to develop skills and gain valuable experience in teaching, lesson planning, and classroom management.

MEET THE TEAM







Mytalli Hermon



Juana Maguellal



Rusty Anglin

Math Standard presented and Lesson plan

MATH STANDARD AR.Math.Content.K.G.A.1 Correctly name shapes regardless of their orientations or overall size

Note: Orientation refers to the way the shape is turned (upside down, sideways).

LESSON OVERVIEW We began with a short lesson on each shape, the number of sides, and vertices. Next, one group member led the students in a hokey pokey dance with the shapes, holding up each shape as it is called out. Then the students were given a form with each shape and divided into groups. The groups went around the room, finding each shape and drawing it as they found it. Finally, two students were chosen to display their drawings and explain why each was an example of the given shape.

FORMAL LESSON PLAN

AR Math Standard K.G. A 1: Identify and describe shapes. Squares, circles, triangles, rectangles and hexagons.

Identify the positions of objects in the environment and geometric shapes in space using names of shapes and describe the relative positions of these objects. Positions could be inside, outside, between, above, below, near, far, over, up, down, behind, in front of, next to, to the left, to the right, or beside.

Objective: Students will be able to identify circle, square, triangle, rectangle, and hexagon. Identify and recognize shapes in everyday surroundings.

Materials: Scavenger hunt worksheet,markers, Provided cutouts of various shapes, objects around classroom to identify shapes, such as plates, books, desks, etc.

Safety Considerations: Non-toxic markers, smock to protect clothing, adult monitors to guide students

Lesson: Introduce by asking the students, "What are shapes?" Some shapes have sides, some have corners, some are round. Go over the shapes provided and count sides and corners. Discuss differences and similarities.

Play the hokey pokey shape dance song and have the children hold up the correct shape. Divide students into small groups and go around the room. Find and identify objects around the classroom that are square, rectangular, circular, triangular, and hexagonal. Describe where they are in relation to other objects.

Conclusion: Students demonstrate their understanding of shapes and develop identification and problem-solving skills.

Assessment Tools: Worksheet graded by the teacher to asses understanding of concepts presented.

CINTHIA LED OUR INITIAL LESSON



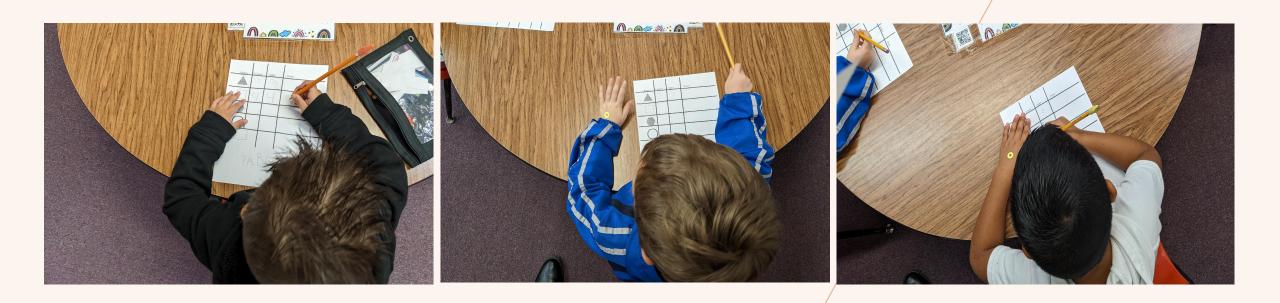






MYTALLI LED THE HOKEY POKEY

JUANA TOOK CHARGE BY GOING OVER THE WORKSHEET.



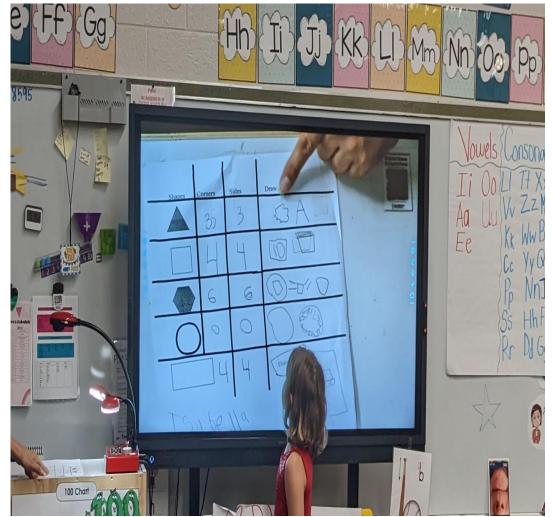
EACH ADULT LED A GROUP AND AFTERWARDS THE STUDENTS COMPARED THEIR DRAWINGS.





STUDENT EXAMPLES





Pitch Deck

SUMMARY

Our group presented to Miss Caballero's kindergarten class on November fourth. The class started with a short lesson on shapes with the number of vertices and the number of sides. The class listened and held up examples of each shape, counting sides and vertices and naming them. Next, the class engaged in a dance where one adult called out a shape, and the students responded by holding up the correct cutout shape. Next, the students returned to their desks and were provided a worksheet to fill out. The number of sides and vertices was counted again, and then the students were divided into groups for a scavenger hunt. The goal of the hunt was to find the shapes around the classroom and draw them to show recognition and understanding of the concepts. Finally, after the hunt, students were chosen to show their work and explain what they saw and why they drew certain objects for certain shapes.

Results of our learning experience

Educational Products

- Grade Level Presentation
- Interactive Classroom Activity
- Lesson plan using AR Standards
- webpage empacts website

Skills we developed as teachers

- Development of lesson plans
- creation of classroom activities
- Presentation and communication skills
- Organizational and time management skills
- Classroom management strategies

ACKNOWLEDGEMENTS

We would like to thank the administration of Westwood Elementary for allowing our group to present at their school.

A special thank you to our k-6 mentor Miss Caballero, and her kindergarten class for being attentive learners.

Citations

- Arkansas Education Standards, Arkansas Department of Education, Math Standards K.G.A. 1
- Hokey Pokey Shapes Song, Mrs. Poquette, <u>youtube.com</u>, <u>https://youtu.be/I4xPrUfIO_E</u>

Thank you for your attention.

Cinthia Araujo, Juana Maguellal, Mytalli Herman, and Rusty Anglin