

Lesson Plan

Three-dimensional shapes - Identifying Spheres

Kindergarten (K) - Math

LEARNING TARGET

- Students will be able to correctly name spheres regardless of their orientations or overall size.
- Students will be able to identify and compare spheres with other 3D shapes.

LEARNING PROGRESSION

PREREQUISITE SKILL

No Prerequisite Skills

EXTENSION SKILL

No Extension Skills

DURATION

- Introduction (5 minutes)
- Instruction (15 minutes)
- Guided Practice (15 minutes)
- Independent Practice (15 minutes)
- Exit Card Formative Assessment (5 minutes)
- Closure (5 minutes)

MATERIALS

- Various sized spheres (at least 5)
- Other 3D shapes (cubes, cones, cylinders)
- Whiteboard and markers

VOCABULARY

- Sphere
- 3D shape
- Orientations
- Compare Size

INTRODUCTION

1. Show the students a sphere and ask them if they know what it is.
2. Explain that a sphere is a shape that is round like a ball.
3. Show the students spheres of different sizes and colors and ask them to describe what they see.

INSTRUCTION

1. Review the concept of spheres and their characteristics.
2. Explain that spheres can be oriented in different ways and come in different sizes, but they are all still spheres.
3. Show the students spheres of different orientations and sizes and ask them to describe what they see.

GUIDED PRACTICE

1. Divide the students into small groups and provide each group with a container of spheres.
2. Instruct the students to work together to identify and name the spheres regardless of their orientations or overall size.
3. Circulate around the room to provide support and guidance as needed.

INDEPENDENT PRACTICE

1. Provide each student with a whiteboard and marker.
2. Instruct students to draw a sphere in any orientation and size, and label it correctly.

HOMEWORK

1. Ask students to find three spherical objects in their homes or in their environment and draw a picture of them.
2. Instruct students to label the objects as spheres and write a short description of their characteristics such as size, color, and orientation.
3. Encourage students to share their findings with the class during the next lesson.

EXIT TICKET

1. Provide each student with a whiteboard and marker.
2. Instruct students to draw a sphere in any orientation and size, and label it correctly.

SUMMATIVE

1. Formative assessments will be conducted during the lesson to monitor students' understanding of spheres and their characteristics.
2. The exit ticket and progress monitoring assessments will be used to determine students' mastery of identifying and naming spheres regardless of their orientations or overall size.

CLOSING

1. Ask students to share one thing they learned about spheres today, and write their responses on the board.
2. Review the importance of being able to identify and name spheres regardless of their orientations or overall size.
3. Encourage students to practice identifying and naming spheres in their daily lives and report their findings to the class during the next lesson.

TEACHING TIPS

1. Use visual aids such as pictures or diagrams to help students understand the concept of spheres.
2. Provide hands-on learning opportunities such as using spheres of different sizes and colors.
3. Encourage students to use descriptive language when identifying and naming spheres.

MISCONCEPTIONS

1. Students may struggle to identify spheres that are not perfectly round.
2. Students may confuse spheres with other round shapes such as circles or cylinders.
3. Students may struggle to identify spheres that are oriented in a non-standard position.

EXTENSION

1. Students can compare and contrast different shapes with spheres.
2. Students can explore the different properties of spheres such as weight, texture, and bounce.

INTERVENTION

1. For students who struggle with visual perception, larger and brightly colored spheres can be used.
2. For students who need extra support, a visual aid or diagram can be provided to help them understand the concept of spheres.

COMMON CORE STANDARD

K.G.A.2 - Correctly name shapes regardless of their orientations or overall size.

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