

Bluebee Pal: Enhancing Learning Through Innovative Technology



Lesson Title:

Locating and Identifying Geometric Shapes in the Environment

Lesson Topic:

Mathematics

Target Population:

Preschool and Primary Grades – Mainstream or Exceptional Education

Common Core Standards for Mathematics: Geometry: identify and describe shapes in the environment using names

Common Core Standards for Speaking and Listening: Presentation of Knowledge and Ideas

Specific 21st century skills:

- Collaboration: Pairs of students will work together to identify shapes
- Communication: Students will communicate to describe identified shapes
- Creativity: Students will create a audio/visual presentation of shapes

App Resources:

- Montessori Geometry: <https://www.common sense media.org/app-reviews/montessori-geometry>
- Dragon Shapes: Geometry Challenge: <https://www.common sense media.org/app-reviews/dragon-shapes-geometry-challenge>
- Shape Gurus: <https://www.common sense media.org/app-reviews/shape-gurus>
- Tangrams for Osmo: <https://www.common sense media.org/app-reviews/tangram-for-osmo>

Vocabulary: Depending on grade, appropriate geometry terms (cube, circle, rectangular prism, etc.)

Materials: iPad or Android tablet for video taping and recording

Lesson Instruction:

- **Introduction:** Connect to previous lessons introducing two- and three- dimensional shapes
- **Teaching:**
 - Bluebee the Teacher plays a geometry shape game using an app from App Resouces while connected to computer and SmartBoard.
Teacher models searching for and identifying geometric shapes in the environment (inside school or outside).
 - Using Android tablet or iPad, teacher video tapes shapes and records descriptions.
 - Teacher demonstrates using Bluebee Pal to present the video/audio recording.
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- **Student Engagement Activities/Learning Experiences:**
 1. Pairs of students locate geometric shapes.
 2. They collaborate to video and record a description of each shape.
Students listen to the Bluebee Pal “read” their recording to evaluate if identified shapes match the recording.
- **Sharing**
 1. Each pair of students shares their video using Bluebee Pal with the class.
- **Assessment:**
 1. Teacher observes for collaboration and completion of assignment
 2. Teacher evaluates students' recordings to assess correct identification of the geometric shapes.

Additional Notes/Resources/Background Information/Connections:

- This should not be the students' first experience with the Bluebee Pal.
They should already be familiar with this educational device and its procedures.
- Evidence-Based Performance White Paper