<p align="center">**Lesson Plan #2 Title**: Pictographs</p>

Performance Objective: Given a video presentation of pictographs and a whole group digital pictograph quiz discussion, the students will be given a worksheet answering questions about a picture graph with 90% accuracy.

Resources or Materials Needed:

- ❖ **Instructor**
  - ▪ Document Camera
  - ▪ Projector
  - ▪ Brain Pop Jr. website (Pictograph video)
    - ▪ https://jr.brainpop.com/math/data/pictographs/
  - ▪ Brain Pop Jr. website (Pictograph quiz)
    - ▪ https://jr.brainpop.com/math/data/pictographs/easyquiz/
  - ▪ Pictograph assessment worksheet
- ❖ **Student**
  - ▪ Crayons
  - ▪ Pencils

Time: About 90 minutes

Step 1: Pre-Instructional Activities: (students are seated at their desks)

- ➢ Teacher will review prior knowledge of what graphs are and the purpose of graphs.
- ➢ Review the components of graphs (title, key, labels)
- ➢ Teacher will project examples of pictographs

Step 2: Content Presentation:

- ❖ Explain to students that we will watch a video about what Pictographs are and complete a quiz about the video together.
  - ▪ Instruct the students to come to the floor
  - ▪ Play the video https://jr.brainpop.com/math/data/pictographs/
  - ▪ Pause and reflect throughout the video to direct attention to the components of a pictograph.

Step 3: Learner Participation:

- ❖ Guided Whole Group Practice: Inform students that they will complete a quiz on pictographs about the video together.
  - ▪ https://jr.brainpop.com/math/data/pictographs/easyquiz/
  - ▪ Whole group practice reading and analyzing graph data.
  - ▪ Questioning:
    - ▪ *Where can you find what symbols mean in a pictograph?*
    - ▪ *What does **Display** mean?*

Step 4: Assessment: (Appendix B)

- ❖ Distribute *Our Class' Favorite Animal* pictograph worksheet

- ❖ Teacher will project a copy of same worksheet to guide students through the questions.
- ❖ Teacher will interpret graph components on worksheet.
- ❖ Questioning:
  - ▪ *What is the graph about?*
  - ▪ *What kind of animals are in the graph?*
  - ▪ *Which animal did the class like the best? How can you tell?*
  - ▪ *Which animal did the class like the least? How can you tell?*
- ❖ Students will complete questions about graph independently.
- ❖ Teacher will monitor.

Step 5: Follow-Through Activities:

- ❖ Students will ask classmates which animal their favorite is: cat, dog, bird, fish and record on data sheet
- ❖ Students will build a pictograph representing the data they collected
- ❖ Students will continue to practice graphing at home with their ixl.com accounts

Lesson Plan Summary: The instructional strategy of watching a video explaining and demonstrating what pictographs are aligns with the cognitivism theory. The teacher assists the students in building a pictograph as a class and provides ongoing feedback. The students analyze and summarize a pictograph to demonstrate their graph knowledge.