

## Lesson Plan #5 Title: Building Bar Graphs

**Performance Objective:** Given an online video presentation of bar graphs the students will complete an online quiz with 5 out of 7 questions for mastery. The students will use crayons or colored pencils to create a bar graph of data given on a worksheet with 3 out of 4 columns correctly representing the given data.

### Resources or Materials Needed:

#### ❖ Teacher

- Projector
- Desktop Computer
- Access to Khan Academy Website
- Access to Khan Academy making bar graphs video
  - <https://www.khanacademy.org/math/cc-2nd-grade-math/cc-2nd-measurement-data/modal/v/creating-bar-charts-1>

#### ❖ Students

- Desktop Computer
- Pencils
- Crayons or colored pencils
- Bar graph assessment

**Time:** Approximately 90 minutes

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

- Teacher will review the purpose of graphs is to gather information and represent data.
- Teacher will show examples of bar graphs.
- Teacher will review the components of graphs (title, key, labels)

### Step 2: Content Presentation:

- ❖ Explain to students that they will be watching a video on building bar graphs
  - <https://www.khanacademy.org/math/cc-2nd-grade-math/cc-2nd-measurement-data/modal/v/creating-bar-charts-1>
- ❖ Inform the students that they will be practicing building bar graphs on the computer.

### Step 3: Learner Participation:

- ❖ Students will access [www.khanacademy.com](http://www.khanacademy.com)
- ❖ Instruct students to access the following:
  - **Learners**
  - **Math**
  - **2<sup>nd</sup> Grade**
  - **Measurement, data, geometry**
  - **Bar graphs**
  - **Making Picture Bar Graphs 1**  
<https://www.khanacademy.org/math/cc-2nd-grade-math/cc-2nd-measurement-data/modal/e/make-bar-graphs-1>

#### **Step 4: Assessment (Appendix E)**

- ❖ After students complete online building bar graphs instruct them to return to their seats.
- ❖ Distribute assessment worksheet of building a bar graph.
- ❖ Instruct students to use their crayons or colored pencils to represent the data given on the assessment.
- ❖ Students will use their crayons or colored pencils to represent the given data on the assessment.
- ❖ Teacher will monitor.

#### **Step 5: Follow-Through Activities:**

- ❖ **Math Center:**
  - **Supplies:**
    - Crayons or colored pencils
    - task cards
    - bar graph templates
  - **Center Activity:**
    - The students will build bar graphs using crayons or colored pencils to represent the data on the task card.
    - Students will continue to practice graphing at home with their ixl.com accounts

**Lesson Plan Summary:** The instructional strategy used in the learner participation of building a bar graph representing the data aligns with the cognitivism theory. The students demonstrate their learning of bar graphs by building graphs digitally and by modeling graphs on the paper assessment using crayons or colored pencils.