

Text Lessons:  
First steps, invest, resources

Concepts to Pre-Assess:  
Graphing, number operations

State Standards: organize data for a bar graph, number operations

Vocabulary (5-10 min per day)

Calendar Math (5 min per day) *Optional*

Warm-Up (5 min per day) *Optional*

Voc/Mon:

Voc/Tues:

Voc/Wed:

Voc/Thurs

Voc/Fri

Bar graph: construct a real graph, title, data

Fact Families, Components of Graphs, Addition, Subtraction

Organization of Data

Review of vocabulary

Review of vocabulary

Whole Group Mini-Lessons (tested skills & concepts) (15-20 min. per day):

Build another real graph

Show students how to play Boom.

Use the newspaper to have students find examples of graphs.

Construct a graph using a white, smart board and a graphing program.

Play "Find the Missing Piece" and have students locate missing parts of graphs.

### Day 1- Whole Group

**\*Introduction of Stations & Activities**

**\*Leadership Academy** (Let leaders work on station activities and exit questions. Clarify and support. Send a copy home to study for homework.)

**\*Independent/Partner Work**

Have students work in pairs or quads to construct more real graphs with counters.  
Have each group write at least 5 observations about their graph and 5 questions about their graph.

**Comprehension & Connections to Real**

**Life:**

"A Remainder of One", doughnuts in a box, eggs in a carton

Intervention:

**\*\*\*Math Journal Writing- 5 minutes every day**

### Days 2 & 3- Station Rotations

**(Heterogeneous)**

**Teacher Time (complex concepts):**

How to use data to construct a graph:

TG p. 11 parts a & b TEK

**Games:**

Boom: Addition and Subtractions Facts

**Manipulatives:**

Unifix cubes to form and 3-D

Bar Graph

**Technology/ Application:**

Use a spreadsheet to create a graph; graph club

Intervention:

As determined

### Day 4- Readiness Groups (Homogeneous)

Above Level: collect data, make your own survey, make a graph. Have them continue on their own with creations and then show to the group in the Mathematician's Circle.

On-Level/ Interest and/or Learning Style: Create a "Bar Graph Book" with the students which gives instructions for creating a real graph and questions to ask about a real, bar graph. Put into the Book Center

At-Promise: Use different manipulatives and large cards to have student "move" the parts of a bar graph and talk about them.

Application of Concepts: Create an Application Menu of Options which includes 9 choices for 3 levels of learners.

### Day 5- Readiness Groups (Homogeneous)

On-Level/ Interest and/or Learning Style: Repeat the above with the remaining half of the on-level learners.

At-Promise: Use different manipulatives and large cards to have student "move" the parts of a bar graph and talk about them.

As Needed: The students who lack conceptual understandings for the previous grade will receive additional instruction in this area.

Pre-Assessment: Have students work 5 number operations and explain on a sheet of paper.

Application: Complete the above Application Menu of Options.