



Boulder County Latino History Project

Lesson Plans

Title: Math Lesson - Mode, Range, Median, and Bar Graphs Using Latino History in Colorado & School Census Information

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Overview

Lesson Overview	In this lesson students will learn and practice how to get and interpret data using School Census information, and at the same time they will engage in learning about Latino history in Colorado.
Author(s) & School	Jesus Hierro Fort Lupton Middle School
Grade Level/ Course	Middle School 7th Grade General Math
Standards	Objectives: 1. Learn and practice basic Math skills: Mode, Mean, Range. 2. Draw a simple conclusion from data by asking questions themselves 3. Learn how to interpret data from bar graphs
Time Required	4 to 6 class periods of 48 Minutes each.
Topics	Immigration, Quantitative information, Education/schools Outline Topics: Education of Latino Children
Time Period	1920s-30s, 1940-1965
Tags (keywords)	Mode, median, range, Latinos, history, bar graph, primary resources, math

Preparation *(Links to worksheets, primary sources and other materials):*

Materials	Paper pencil, calculators, spreadsheet, computers video clip.
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Lesson Procedure *(Step by Step Instructions):*

Objectives:



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1. Learn and practice basic Math skills: Mode, Mean, Range.
2. Draw a simple conclusion from data by asking questions themselves
3. Learn how to interpret data from bar graphs,

Day 1. 3 question survey/pretest, 10-minute video “Los Inmigrantes,” vocabulary, Graph #1 (Boulder, 1935-1955).

Day 2. 10minute video “Los Inmigrantes” (cont), review vocab, Graph #2 (Lafayette, 1935-1955), Mean, range, and mode (yearly School Census data).

Day 3. Finish video, Graph #3 (Longmont 1935-1955). Compare the 3 bar graphs and find mean, mode, and range.

Day 4. Review and Post-test using data between 1935 and 1955 from three cities.

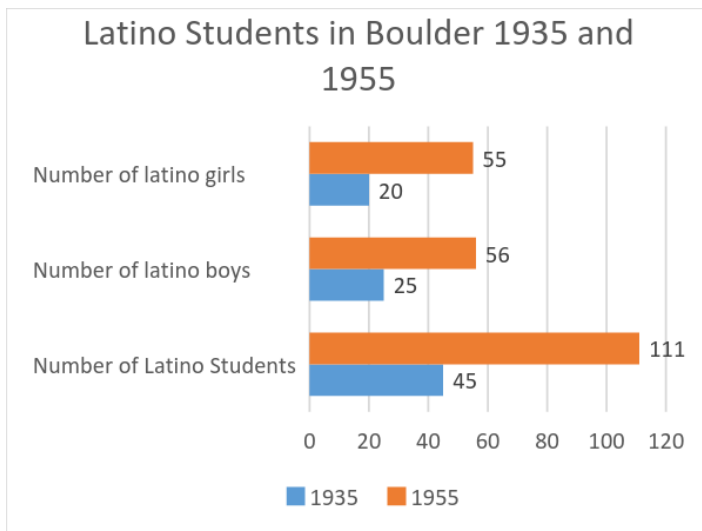
Directions:

Build Concept Comprehension by explaining to the class (in English) that during the next few lessons we will be learning about concepts of median, mode, and range, and at the same time they will be engage in learning about Latino history in Colorado through math concepts (modified)

1. Pretest
2. Explain meaning, step by step, of Range, Median, Mode, and Bar Graphs, with guided practice
3. Hand out samples of bar graphs and median mode range exercises for practice
4. Pair the students and comment their discoveries (findings)
5. Explain: What is Latino history in Colorado in every class show short video, “Los Inmigrantes,” divided into 10-minute sections)

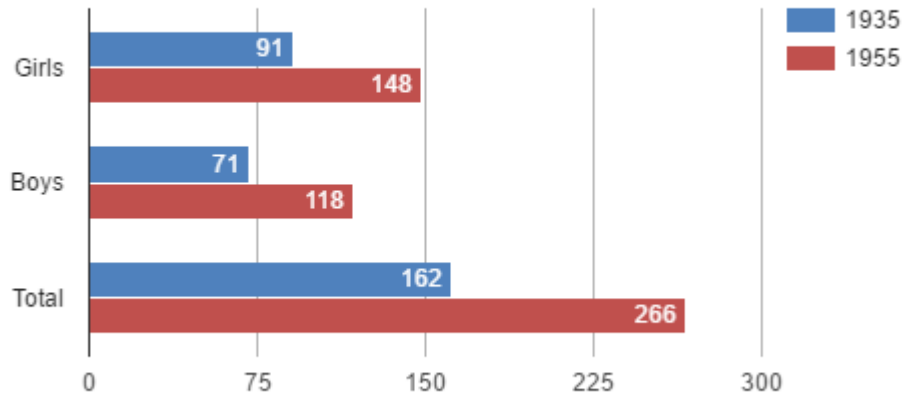
Evaluation/Assessment: *(Methods for collecting evidence of student learning)*

Pre-test, Ongoing assessment, and Post test

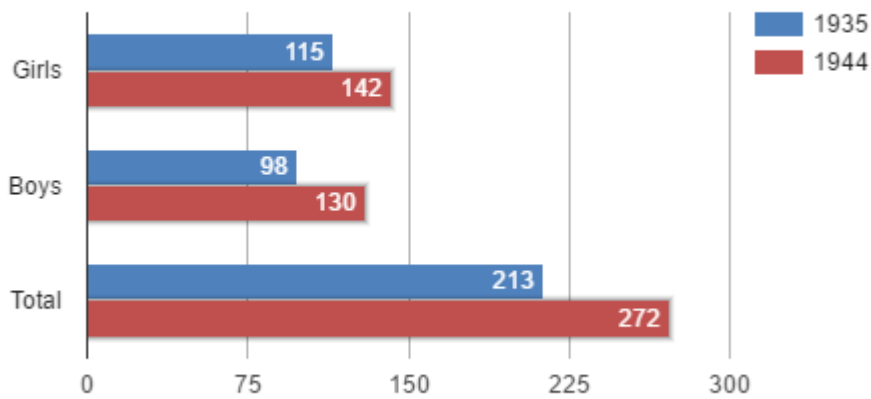


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Latino Students in Longmont 1935 and 1955



Latino students in Laffayette 1935 and 1944



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