

USD 469 Lesson Plan

Lesson Title	Mean, Median, and Mode
Created by	Rhonda Lang
Building	LMS
Grade Level	8 th Grade
Subject Area	Pre-Algebra
Time (<i>Time frame for the lesson</i>)	2 days
State Standards Addressed	8.4.2K3 determines and explains the measures of central tendency (mode, median, mean) (testable indicator for 8 th graders)
Technology Equipment <i>(list the equipment needed and what needs to be connected before the lesson begins. Also any instructions on connecting)</i>	<p>*Graphing calculators—TI-83</p> <p>*Poster that goes with TI-83 to help in showing students where certain keys are</p> <p>*Overhead view screen for TI-83</p>
Tips <i>(Special instructions or information that will help the instructor be successful using the equipment. What the students need to know BEFORE the lesson? What do the teachers need to know before the lesson?)</i>	<p>*Students should have had their unit on mean, median, and mode for rational number data sets.</p> <p>*Teachers need to know how to use the graphing calculator—the list function.</p>
Activity Type <i>(list all that apply- Group activity, Cooperative learning, Research, Hands on, etc...)</i>	Group activity—groups of 2 (mostly because I don't have enough calculators for all students) TEACHER LEAD Activity and then cooperative group practice
Activity Context <i>(Briefly describe how the activity fits into the context of the lesson. What will precede the activity? What will follow the activity? What do you want to accomplish by using the activity in your classroom)</i>	<p>Students will have been through the lessons on mean, median, and mode for the state test. This activity along with graphing linear equations exposes 8th graders to graphing calculators before they are suppose to be able to use them in their high school math courses.</p> <p>Students will be given lists of data and shown how to enter lists of data under the LIST key.</p> <p>Press 2nd {, and enter the list separated by commas and then close the list by pressing 2nd }</p> <p>Press (STO), then name the list by pressing 2nd LIST and choose what list name you would like to use.</p> <p>Press (2nd LIST), and arrow button to the right until you get to (MATH), press (3) to select the (mean)</p> <p>Next, press 2nd (LIST) again and press 1 to select L1.</p> <p>The calculator will then display the mean with L1 displayed. Press (enter) and the calculator will display</p>

	<p>the mean of L1</p> <p>You can also do the same procedures with median, and mode functions on the calculator.</p> <p>Students will work through 2 or 3 examples with instructor then do 6 on their own with a partner and a graphing calculator.</p>
<p>Additional Materials/Resources <i>(Handouts)</i></p>	<p>Handout from graphing calculator manual of stats unit on how to use list and stat menus on the graphing calculator for reference.</p>
<p>Extension Activities/Follow up <i>(What do you do next? How do you know it was successful? Other activities to do.)</i></p>	<p>Students can use the graphing calculators on homework or continue doing the problems by hand or a scientific calculator. On the test, students will be given the option to use either type of calculator.</p> <p>Continue exposing students to the graphing calculator throughout the year, not to master the calculator but to gain confidence and familiarity with a graphing calculator before reaching High School.</p>