

Lesson Title: Organizing and Gathering Data (Day 1 of 5)
Unit: Graphing
Grade Level: 6 th grade
Estimated time requirement: 1 or 2 class periods
Summary: Students will learn to design and write a survey. Students will learn different methods to gather, organize, and present data.
Objectives:
<ul style="list-style-type: none"> • Students will learn to gather and organize data using a line plot and frequency table.
Texas Essential Knowledge and Skills:
10A, 10D, 11A, 12A, 13B
Assessment:
<ul style="list-style-type: none"> • Teacher will grade class presentations. • Workbook page 1-1 from Prentice Hall.
Materials:
<ul style="list-style-type: none"> • Student made survey of elementary school attended • TI-73 graphing calculator • Vocabulary power point
Resources:
<ul style="list-style-type: none"> • Video clip: <i>Definition and Types of Graphs</i>. AIMS Multimedia. 2004. <u>Digital Curriculum</u>. • <http://www.digitalcurriculum.com/dcdoor.php4?ID=5372&Page=Title>. • Text: <i>Prentice Hall Middle Grades Math Tools for Success</i> (pages 4-7)
Prior Knowledge/Skills: gathering, recording, and organizing data
Procedures:
<p>Students will create a survey and collect data from classmates using a frequency table. The survey will record the elementary schools each student attended last year. Students to our school are each coming from different elementary schools within our city. This will help each student to realize that he or she is not the only “new kid on the block”. Since all students are new to our school this year, this is a common bond on which to build.</p> <p>In a separate activity, students will collect data through a probability simulation on rolling dice using the TI-73 calculator. Students will use the dice simulation to “roll” 25 times and record their results using a line plot.</p> <p>Students will work in groups and present their findings to the class using the document camera.</p>
Technology Infusion:
<ul style="list-style-type: none"> • Students will use the document camera to share their results with the class. • Use a digital video camera to record the student presentations to show at open house or to other classes. • Students will use the TI-73 graphing calculator for the dice simulation to record data. • Students will get their vocabulary information by a teacher made power point. • Students will watch a short digital video clip from Digital Curriculum to explain the differences and purposes behind different types of graphs.

Cultural Connections: Explore the backgrounds of their previous school's mascot and for whom their elementary school was named. Are there any students who came from another state or region? Discuss their cultural connections if applicable.

Family Connection: Students will decide on a topic and create a survey to ask parents, grandparents, and/or other family members living in the home. After students have had time to gather their data, we will display our results in one of the two methods of data collection.

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