Mathematics

Brunswick School Department Transitional Mathematics Unit 4: Data Analysis

	 Data analysis is used by the media, so it is important to know how
Essential	to accurately interpret data.
Understandings	 Mathematicians use data to represent real life situations. This data
-	is usually represented as a table, chart or graph.
	 Data can be manipulated to inaccurately represent information.
	What is data?
	What does the "mean" represent?
	What does the "mode" represent?
Essential	What does the "median" represent?
Questions	What does the "range" represent?
	What are some basic types of graphs used to represent data?
	What is a sample group?
	How doers the media use data?
	What are some ways in which data can be misrepresented?
	 Data analysis involves gathering statistics using sample groups,
Essential	and the representing this data graphically.
Knowledge	 The mean, median, mode and range are measures of central
	tendency used in data analysis.
	 Accurate graphs have consistent intervals, labels and titles.
	■ <u>Terms</u> :
	 mean, median, mode, range, ascending and descending
Vocabulary	order, average, repeating data, bar graph, line graph,
	pictograph, pie graph, spread sheet, sample group and
	measures of central tendency
	 Calculate the mean, median and range of given data.
Essential	 Identify the mode of a given data set.
Skills	 Create graphs using excel and paper and pencil.
	 Read and interpret information from graphical representations.
	Mathematics
	B. Data B2 Students understand and know how to describe distributions
	B3. Students understand and know now to describe distributions
Polotod	and find and use descriptive statistics for a set of data.
	a. Find and apply range, quartiles, mean absolute deviation,
	b Interpret give examples of and describe key differences
Results	b. Interpret, give examples of, and describe key differences
	skewed
	c For the sample mean of normal distributions use the
	standard deviation for a group of observations to establish
	90%, 95%, or 99% confidence intervals.
Sample	 Students will use the computer lab to learn the techniques for
Lessons	creating graphs utilizing the Excel program.
And	 Students will create a survey question. develop a sample group
Activities	and gather data.

Brunswick School Department Transitional Mathematics Unit 4: Data Analysis

Sample Classroom Assessment Methods	 Students will create a graph using Excel to represent their statistical data.
Sample Resources	 <u>Publications:</u> <u>Saxon-Algebra 1/2</u>