

Social Action Project Mathematics

The student will demonstrate an understanding of data analysis and statistics by collecting data, creating visual displays, and examining the data to draw inferences about the economic base of the philanthropic organization chosen.

Student Name: _____

3=Exceeds Content Standards	2=Meets Content Standards	1=Does Not Meet Content Standards
0=Unscorable		

State Standard 6 -- The student will collect and explore data, organize data into a useful form, and develop skill in representing and reading data displayed in different formats.

State Standard 7 -The student will examine data and describe characteristics of a distribution, relate data to the situation from which they arose, and use data to answer questions convincingly and persuasively.

State Standard 8 - The student will draw defensible inferences about unknown outcomes, make predictions, and identify the degree of confidence they have in their predictions.

DATA ANALYSIS AND STATISTICS: *The student will collect and organize data into a useful form for interpretation using tables, charts, graphs, box plots, tree diagrams, stem-and-leaf plots, spread-sheets and/or data bases.*

A. Choose data about an aspect of your organization and use it to create at least one bar graph, one pie graph, and one plot. For example, the student might visually illustrate the ages, genders, and socio-economic levels of the members and volunteers in this organization, or he/she might analyze the ways the organization obtains and uses its money. Perhaps this might be the same data used in the science portion. These may be computer generated, but the graphs and charts must be original , and the data must be authentic.				
1. All graphs, charts and plots are accurate. Data is authentic (not made up).	3	2	1	0
B. Each of the above visual representations should include a typed, double-spaced explanation where conclusions are drawn based on the data.				



1. Written explanations are thorough and accurate.	3	2	1	0
2. The student draws defensible inferences based on the statistics.	3	2	1	0
TOTAL POINTS=	<u> </u>	÷ 2 =	<u> </u>	(average)

