Gold Seal Lesson:

Copernicus Education Gateway

Author(s): ***David Nohara***			***Lesson Title:*** ***Campaign Polls***			
Grade Span			***ICLE Application Model***			
K-4	***5-8*** ***XX***	***9-12***	***A***	***B***	***C***	***D*** ***XX***

Instructional Focus:

Statistics and Probability
Students use statistics and probability to analyze given situations and the results of experiments. Students communicate the reasoning used in arriving at a conclusion.

Performance Task

You are an adviser to a presidential candidate. Two polls were just released. You have been asked to prepare a brief that states which poll is more reliable and why, and to provide a detailed analysis—with graphics— of the one you chose.

One poll shows your candidate ten percentage points ahead of her opponent and the other shows her ten percentage points behind. List at least five questions you would ask to evaluate which poll is more accurate and how the answers would influence reliability.

The poll you end up choosing contains several different types of data. For each of the sets of information, use a pie, bar, or line graph to present the information. In addition to the graph itself, explain why you chose that particular graph and whether either of the other two types would have also been appropriate.

Poll results:

1) Support for candidates:

Candidate A (your candidate)	42%
Candidate B	32%
Candidate C	10%
Undecided	16%

2) Support for candidate A over the past two months

September 23 (today)	42%
September 9	41%
August	45%
August	52%
July	43%

3) Support among various groups (percentage of each who supports Candidate A)

Parents	55%
Homeowners	60%
People who voted in the last election	60%
Republicans	77%
Democrats	13%
Independents	20%
Men	49%
Women	35%

Note: The graphing can be done either by hand or using graphing software.

ICLE Essential Skills

Understand the best procedures for statistical ***data collection, organization, and display*** including making estimates and predictions and drawing inferences**.** (m5)

Scoring Guide:

Choosing a poll (40 points)	Lists five questions Questions are related to poll reliability Questions justified logically
Graphing (60 points—20 points per graph)	Appropriate graphs chosen Choice of graph justified logically Graphs drawn properly (scales appropriate, axes/pieces labeled)

Keywords

English Language Arts	Mathematics	Science
Reading	**Algebra**	**Earth Science**
Writing	**Geometry**	**Life Science**
Communications	**Statistics:** charts, data analysis, data display, graphs, plots, statistics in daily life, surveys	**Chemistry**
Literature	**Calculus**	**Physics**
Other	**Trigonometry**	**Other**
	Other	