



Gold Seal Lesson

Author(s): <i>Alyce Fradenburg</i>			Lesson Title: <i>Graphic Speeches</i>			
Grade Span			ICLE Application Model			
K-4 <i>X</i>	5-8	9-12	A	B	C	D <i>X</i>

Instructional Focus:

Speaking

Students speak for a variety of purposes and audiences with sophistication and complexity appropriate to the grade level.

Tools and Technology

Students use appropriate tools and technologies to model, measure, and apply the results in a problem-solving situation. Students communicate the reasoning used in solving these problems.

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.

Number Operation and Concepts

Students use number, number sense, and number relationships in a problem-solving situation. Students communicate the reasoning used in solving these problems.

Performance Task

You will be placed in a group of 2 or 3 students. You are to gather information from a lower grade level class about favorite color, household pets, favorite school lunch, transportation to school, etc.

Your group will prepare a graph either using a computer and graphing program or drawing a graphing with paper and pencil and create 3 simple word problems that use the data in the graph.

After your group returns to the interviewed class and explain the graph and the word problems to the students in the class you will place the graphs and word problems in the hallway for display.

ICLE Essential Skills

Explain orally a complex process or concept to a younger person. (ela 74)

Prepare and deliver individual speeches by gathering information, rehearsing, making eye contact, speaking loudly enough, delivering information in a well-organized fashion, and appealing to the needs of the target audience. (ela 10)

Understand the needs of a specific audience and write and speak in ways that address these needs. (ela 62)

Analyze and evaluate ideas and information transmitted by non-print media and visual aids. (ela 76)

Understand and use graphics such as graphs, charts, visual aids, white space, bold print, headers and other graphics to enhance meaning. (ela 56)

Apply in writing the rules and conventions of grammar, usage, punctuation, paragraphing and spelling. (ela 1)

Use expository writing skills in subjects other than English language arts. (ela 58)

Understand the best procedures for statistical data collection, organization, and display including making estimates and predictions and drawing inferences. (m 5)

Scoring Guide: Group

3
2
1

The group was able to collect information from the class without help from the classroom teacher.
The group needed some help for the classroom teacher to gather information for the graph
The group needed the teacher to direct the class in order to gather information

The group did not need teacher assistance to create the graph and word problems.
The group need minimal assistance from the teacher to create the word problems and graph
The group needed a lot of help to create the graph and word problem.

The group correctly solved word problems submitted by other groups.
The group needed some assistance in solving word problems from other groups.
The group needed a lot of intervention to solve word problems from other groups.

Scoring Guide: Individual

3
2
1

The student remained on task and contributed to the group.
The student was not with the correct group or tried to control the group members some of the time
The student was not with the correct group or tried to control the group members most of the time

3
2
1

The graph represented the information from the count.
Almost all of the information on the graph represented the information from the count.
The information on the graph did not represent the information from the count.

All word problems used the information from the graph.
Most of the word problems reflected the information from the graph.
Most of the word problems DID NOT reflect the information from the graph.

Scoring Guide: Graph and Word Problems

Keywords

English Language Arts	Mathematics	Science
Reading	Algebra	Earth Science
Writing Mechanics	Geometry	Life Science
Communications Interviewing	Statistics Data Display Graphs, graphing	Chemistry
Literature	Calculus Problem Solving	Physics
Other	Trigonometry	Other
	Other	