
Lesson Plan: Graphing (Day 2 of Topic)

Topic: Line Graphs

Objective: Students will be able to construct and interpret a line graph.

NYS Learning Standards:

- SI 1.1- Formulate questions independently with the aid of references.
 - SI 1.2- Construct explanations using visual models.
 - SI 1.3- Present and defend explanations so they can be understood and assessed.
- M3.1a- use appropriate tools to solve problems about the natural world.
M2.1a- interpolate and extrapolate from data.
M2.1b- quantify patterns and trends

Materials:

Worksheet, overhead and transparencies, powerpoint presentation, projector, graph paper

Anticipatory set:

Ask students to write down 5 items that must be included when constructing a Line Graph. Discuss answers.

Methodology:

1. Discuss what a Line Graph is.
2. Discuss why we would use a Line Graph.
3. Show overhead transparency illustrating various examples of Line Graphs.
4. Ask students what all the examples have in common.
5. Explain required information that all line graphs must include.
6. Ask students to interpret line graphs on overhead- do they notice trends in the "slope" of the line?
7. Does the "slope" have meaning?
8. What does it mean when the "slope" goes up? Down?
9. Describe horizontal and vertical axes- what does each represent?
10. Define and discuss variable, independent variable. Determine, from the examples on the overhead transparency, which are each of the dependent and independent variables.

HW:

Complete worksheet "Grasping Graphing".