

**Instructor Sheet**  
**Graph a Panther's Diet**  
**Lesson 20**

**Grade Level(s):** Elementary, Middle

**Duration:** 30 minutes

**Setting:** Indoors, graphing activity

**Skills:** Interpretation, graphing, web navigation

**Subject Areas:** Mathematics, environmental science, life science

**Overview:** Students convert the pie chart of what the panther eats to a bar graph

**Site location(s):** Natural History: Diet (click on pie chart)

**Sunshine State Standards:**

Grades 3-5

SC.B.2.2.1 knows that some source of energy is needed for organisms to stay alive and grow.

SC.F.1.2.2 knows how all animals depend on plants.

SC.G.1.2.5 knows that animals eat plants or other animals to acquire the energy they need for survival.

MA.A.1.2.2 understands the relative size of whole numbers, commonly used fractions, decimals, and percents.

MA.A.1.2.3 understands concrete and symbolic representations of whole numbers, fractions, decimals, and percents in real-world situations.

MA.A.1.2.4 understands that numbers can be represented in a variety of equivalent forms using whole numbers, decimals, fractions, and percents.

MA.E.1.2.1 solves problems by generating, collecting, organizing, displaying, and analyzing data using histograms, bar graphs, circle graphs, line graphs, pictographs, and charts.

Grades 6-8

MA.A.1.3.2 understands the relative size of integers, fractions, and decimals; numbers expressed as percents; numbers with exponents; numbers in scientific notation; radicals: absolute values; and ratios.

The Activity

*Pre-planning:*

1. Reserve a computer lab or set up computers in your classroom.
2. Assemble a sample bar graph (on an overhead sheet), graph paper, colored pencils, erasers, rulers, additional art supplies.

Lesson 20

*Procedure:*

1. Show students a sample of a bar graph.
2. Have students look at the pie chart at the site location.
3. Students convert the data in the pie chart into a bar graph and draw it on graph paper or art paper.

*Extension:*

Students make another visual representations of the same data, using pictures of the animals, or some other creative method.

*Assessment:*

1 bonus points for adding color and/or artwork to graphs

4 = Bar graph complete, correct , and neat

3 = Bar graph complete and mostly correct

2 = Bar graph mostly complete and mostly correct

1 = Bar graph started, some effort

0 = Little or no participation