

Where Are They on the Map?

Subjects

Math
Language Arts
Technology

Objectives

The student will:

- Label the X and Y axis on his/her map with 100% accuracy.
- Plot the X/Y coordinates on his/her map with 85% accuracy.
- Label the park on their map with 100% accuracy.
- Through comparison, label the pack territories with 90% accuracy.

Materials

Computer Lab, if possible
Graphing Paper
Coordinate Points worksheet
1995/1996 Territory Map
Completed Map
Step by Step Instructions for Map
Where Are They on the Map Rubric

Background for Students

Where do you live—in a house, in an apartment, in an urban neighborhood, or out in the country? Do you have your own bedroom, or do you share one? We all have our space—our own territory. Wolves are no different. They live in a pack and set up a home area where they live, hunt, sleep, and raise their young.

For almost 70 years, wolves did not live in Yellowstone National Park. The last wolf in the park was killed in 1926, and it was not until 1995, that wolves were returned. The wolves were brought to the park from Canada. Would the wolves go *home* to Canada, or would they establish new territories in the park?

Procedure

The instructor will:

1. Distribute a Coordinate Point worksheet to each student.
2. If a computer lab is available, have students complete the map by using Excel to enter their coordinates. (See Completed Map and Step by Step Instructions for Map.) If a computer lab and Excel are not available, have students mark the X and Y axis on graph paper and plot each group of coordinate points from their worksheets onto the graph.
3. Have students connect the coordinate points within a group to each other. This creates the territory/pack boundaries.
4. Instruct students to compare their boundaries to the actual the 1995/1996 Pack Map.
5. Have students label the park and pack territories based on their comparisons.

Assessment

Where Are They on the Map Rubric

National Science Standards

NS.5-8.3 Life Science
NS.5-8.5 Science and Technology
NS.5-8.7 History and Nature of Science

National Math Standards

NM-GEO6-8.1

NM-DATA.6-8.1

NM-DATA.6-8.2

NM-DATA.6-8.3

NM-PROB.PK-12.1

NM-PROB.CONN.PK-12.2

NM-PROB.CONN.PK-12.3

NM-PROB.REB.PK-12.1

NM-PROB.REB.PK-12.3

National Technology Standards

NT.K-12.1 Basic Operations and Concepts

NT.K-12.2 Social, Ethical, and Human Issues

NT.K-12.3 Technology Productivity Tools

NT.K-12.4 Technology Communication Tools

National Language Arts Standards

NL-ENG.K-12.1 Reading for Perspective

NL-ENG.K-12.6 Applying Knowledge

NL-ENG.K-12.12 Applying Language Skills

National Social Studies Standards

NSS.G.K-12.1-The World in Spatial Terms

NSS.G.K-12.6-The Uses of Geography

NSS.USH.5-12.4-Expansion and Reform (1801-1861)