



Wolf Adaptations PowerPoint

National Science Content Standards:

Life Science:

- Diversity and adaptation of organisms

Science as Inquiry:

- Abilities necessary to do scientific inquiry

Vocabulary:

Limiting factor
Habitat
Adaptations
Behavior
Diet

Materials:

- Computers with access to the internet and Microsoft PowerPoint software

Introduction: Students will create a PowerPoint presentation focusing upon wolves and their adaptations for survival. The time required will be approximately two 80 minute classes to explain and research, then another one or two 80 minute class periods to create PowerPoint and practice presentation.

This project can be done prior to or after playing *WolfQuest*.

Objectives:

At the end of this activity, the student will:

1. Demonstrate knowledge of limiting factors.
2. Demonstrate knowledge about wolf habitat.
3. Demonstrate knowledge of beneficial adaptations.

Procedure:

This is a project that can be completed as a PowerPoint presentation, made into a poster, or used as a report. This can be done solo, or small group.

Background Knowledge:

1. Students will need to be presented with the definitions of the vocabulary words.
2. Teacher will also need to walk students through PowerPoint use.

Assignment Steps:

1. Students will create a presentation about the wolves of Yellowstone.
2. Students will create six slides for their presentation. On each slide, they should have pictures and keep words to a minimum. The facts will need to be delivered during the presentation.
3. Slide 1 = Title Page
4. Slide 2 = Habitat of Wolves (show the audience what it looks like where they live)
5. Slide 3 = Diet of the Yellowstone wolves (What do they eat, Why do they eat what they do, etc)
6. Slide 4 = Limiting Factors (What limits how many wolves survive in Yellowstone, think of water, food supply, weather, etc)
7. Slide 5 = Physical Adaptations (what do they look like, what about their look helps them survive, etc)

Procedure (continued):

8. Slide 6 = Behavior adaptations (what do wolves do to survive, how do they live, etc)
 - Require students to explain why the adaptations are helpful to the wolves' survival.
 - Require that the students use visuals rather than words on the PowerPoint

Extensions:

- Use the PowerPoint as a conference. Parents can come in, their child can present to the parents.
- Assign students different packs of wolves. There are many documented packs of wolves. Around the country.
 - This is a great option if you are planning to have the students present to their class
 - It also provides for an opportunity to practice comparing/contrasting as a class or reflective assessment.
 - Habitat
 - Limiting factors
 - Appearance (size, colors)
 - Behavior
 - Diet