

ANIMAL ADAPTATIONS AND POPULATION VIRTUAL SAFARI

Research and Investigate

1. How to start the research?

Go to the student shared folder to view your assigned animal to investigate.

Use the internet to conduct your research. Please be reminded that you must write down each site used for this investigation.

2. Collect and organize information on:

Population changes from 1800- present time. Students must record at least 10 estimates.

With each estimate describe the factors that contribute to the population changes. Site all sources.

Describe their diet,

Name of Animal: _____

Description of Habitat	Life Span	Diet	Population Status	Interesting fact

3. Complete the classification of your animal(s)

Kingdom	Phylum	Class	Order	Family	Genus	Species

4. Create a table to display the years and estimated population changes over the years.

Estimated Animal Population (in terms or millions)

Animals	1800	1820	1840	1860	1880	1900	1920	1940	1960	1980	2000

Math Analysis

5. Create a separate graph to display the population changes in each animal. Describe the pattern of change in the population for each animal over time.
6. Create a line of best fit for each based on the shape of the line. Write the equation of the line and explain its meaning.

7. Describe the correlation and explain your reasoning. Find the residuals for each table value. What does this mean as you make predictions about the population changes using the line of best fit?
8. Use the line of best fit to predict the population of each animal in the next 10, 20, and 30 years.

Science Analysis

1. Compare both of the animals you and your partner have researched. What are some of the adaptations these animals have to help them in their habitat?
2. Explain how these adaptations/traits either benefit or harm your animal in survival.
3. Discuss how natural selection is part of the population of the animals you researched either increasing or decreasing.
4. What are some actions that should be taken to either maintain the animal population or increase its population?
5. Describe the ecosystem both your animals live in. How does their ecosystem affect their population rates? What could affect their ecosystem that would affect the animal population?

