

Reindeer Of St Matthew Island Worksheet Answer Key

Name: _____ Date: _____ Teacher: _____ # _____

The Mystery of Saint Matthew Island Study Guide & Review (Pages 855-886)

Work Comprehension Directions: Answer each question with a complete sentence.

1. Read page 882, what is the main idea? _____
2. Why is it so difficult to get to reach Saint Matthew Island? (881) _____
3. What conclusions can you draw about Dr. Klein and the other investigators? Support your conclusions with details from the text. (882) _____
4. What did Dr. Klein and his team discover on the island? (883-885) _____
5. Why did the illustration include a cut-away of a reindeer bone on page 883? _____
6. Dr. Klein studied the reindeer bones and believed the animals had starved to death. What event took place before this discovery that led him to this conclusion? (885) _____
7. Why do authors include the graphs like the one found on page 885? _____
8. Compare and contrast the work of Dr. Klein in this story to the work of Jane Goodall (from the prior reading selection about her work with animals). _____

Vocabulary Review Directions: Use the word from the bank below to fill in the blanks.

deserted	carcasses	desert	parade	extinct	starvation	exhaustion	hunger
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1. When Dr. Klein visited Saint Matthew Island, he knew that it was a large _____ with no trees.
2. He found a small group of _____ reindeer.
3. He also found the _____ of several thousand dead reindeer.
4. Their bones had been _____ by the sun.
5. The dead reindeer were in various states of _____.
6. Dr. Klein had several _____ about what had happened to the reindeer.
7. One possibility was that the reindeer had been killed by _____ that used them as a host.
8. Finally, Dr. Klein decided that the reindeer had most likely died of _____ or a lack of food.

Reindeer of St. Matthew Island worksheet answer key is a crucial educational resource for students and teachers alike, particularly those studying biology, ecology, or environmental science. The worksheet typically accompanies a lesson about the introduction of reindeer to St. Matthew Island and examines the consequences of this ecological event. Understanding the answer key not only helps in assessing student comprehension but also enriches the learning experience by providing deeper insights into ecological balance, species adaptation, and human impact on environments.

Understanding the Context of St. Matthew Island Reindeer

St. Matthew Island, located in the Bering Sea, is a prime example of how species introductions can drastically alter an ecosystem. In 1944, reindeer were introduced to the island as a food source for military personnel stationed during World War II. This seemingly harmless act resulted in significant ecological changes over the decades that followed.

The Introduction of Reindeer

- **Purpose of Introduction:** The primary goal was to provide a sustainable food source for troops.
- **Initial Population Dynamics:** Initially, the reindeer population flourished due to the absence of natural predators and the availability of food.

Population Explosion

- **Rapid Growth:** Within a few decades, the reindeer population exploded, leading to overgrazing.
- **Consequences of Overpopulation:** The unchecked population growth resulted in severe vegetation loss, which in turn affected the island's ecosystem.

The Impact on St. Matthew Island's Ecosystem

The introduction of reindeer had profound effects on the island's flora and fauna. Understanding these impacts is crucial for students learning about ecological balance.

Vegetation Changes

- **Overgrazing:** The reindeer consumed vast amounts of vegetation, which led to soil erosion and loss of plant biodiversity.
- **Loss of Native Species:** Many native plant species were unable to recover from the pressures of overgrazing, leading to a decline in plant diversity.

Effects on Other Animal Species

- **Disruption of Food Chains:** The decline in vegetation affected herbivores that depended on these plants, leading to a cascading effect throughout the food chain.
- **Predator-Prey Dynamics:** With fewer plants, other species that relied on these plants for food faced population declines, altering the entire ecosystem's balance.

Educational Value of the Worksheet

The **Reindeer of St. Matthew Island worksheet answer key** serves as a vital tool for educators in assessing students' understanding of the material. The worksheet typically includes questions that prompt students to think critically about the ecological impacts caused by the reindeer.

Common Questions Found in the Worksheet

1. What were the reasons for introducing reindeer to St. Matthew Island?
2. Describe the initial effects of the reindeer population growth on the island's vegetation.
3. How did the reindeer population affect other animal species on the island?

Benefits of Using the Worksheet

- **Engagement:** Worksheets encourage active participation and engagement with the material.
- **Critical Thinking:** Questions challenge students to think critically about cause and effect in ecosystems.
- **Assessment:** The answer key provides a straightforward method for teachers to assess understanding and retention of information.

Analyzing the Answer Key

To effectively utilize the **Reindeer of St. Matthew Island worksheet answer key**, it is essential to analyze how each question is structured and the depth of understanding it requires from students.

Sample Answers and Explanations

- 1. Reason for Introduction:** Reindeer were introduced as a food source for military personnel. This simple act showcased how human intervention can lead to unforeseen ecological consequences.
- 2. Effects on Vegetation:** The rapid growth of the reindeer population led to overgrazing, which resulted in a significant loss of plant life. This loss not only affected the reindeer but also had a domino effect on other species that relied on the vegetation.
- 3. Impact on Other Species:** As vegetation decreased, other herbivores struggled to find food, leading to declines in their populations. This shift altered the balance of the ecosystem, demonstrating the interconnectedness of species within an environment.

Conclusion

The **Reindeer of St. Matthew Island worksheet answer key** is more than just a set of correct answers; it is a reflection of the complex relationships within ecosystems and the far-reaching consequences of human actions. By engaging with this material, students can gain valuable insights into ecology, conservation, and the importance of maintaining balance within natural systems. As educators utilize this resource, they not only assess knowledge but also foster a greater appreciation for the intricate web of life that exists in our world. Understanding these concepts is vital as we continue to navigate human impact on the environment in the 21st century.

Frequently Asked Questions

What is the significance of St. Matthew Island in the study of reindeer populations?

St. Matthew Island is significant because it was the site of a unique ecological experiment where a small herd of reindeer was introduced and subsequently studied for its population dynamics and environmental impact.

What key factors influenced the reindeer population on St. Matthew Island?

Key factors include limited food resources, harsh climatic conditions, and the absence of natural predators, which led to dramatic population fluctuations.

How did the reindeer population change from their introduction to the island to the eventual decline?

The population initially thrived due to the lack of predators and abundant food, but overpopulation led to resource depletion, resulting in a significant decline.

What role does carrying capacity play in the reindeer population dynamics on St. Matthew Island?

Carrying capacity refers to the maximum population size an environment can sustain; on St. Matthew Island, the reindeer population exceeded this capacity, leading to starvation and decline.

What lessons can be learned from the reindeer of St. Matthew Island that apply to wildlife management?

The case illustrates the importance of understanding population dynamics, resource management, and the potential consequences of introducing species to new environments.

What ecological consequences arose from the overpopulation of reindeer on St. Matthew Island?

The overpopulation led to overgrazing, habitat degradation, and a significant decline in vegetation, which affected the island's overall ecosystem health.

How does the St. Matthew Island reindeer case study relate to concepts of invasive species?

The introduction of reindeer to St. Matthew Island serves as a cautionary tale about invasive species, highlighting how non-native species can disrupt local ecosystems.

What are the main themes explored in the 'Reindeer of St. Matthew Island' worksheet?

The main themes include population dynamics, ecological balance, the impact of human intervention on ecosystems, and lessons in wildlife conservation.

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