

The First Americans: Guided Reading Lesson 1: Migration to the Americas

THE FIRST AMERICANS

Lesson 1 *Migration to the Americas*

Guided Reading

Essential Question

What are characteristics that make up a culture?

The Migration Begins

Reading for Accuracy: As you read the lesson, answer the questions below.

1. **Identifying** Name the scientific field that focuses on the study of ancient peoples.

2. **Listing** Name two types of things that are considered artifacts, or items ancient people left behind.

3. **Identifying** Name the ancient land bridge that once linked Asia and the Americas.

4. **Explaining** What is the relationship between the Ice Age climate and the land bridge between Asia and the Americas?

5. **Speculating** What do scientists think is the reason that people crossed Beringia from Asia to the Americas?

The Americans Chapter 1section Guided Reading

Xiang Xie



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web by utilizing the half equivalence point on the titration curve the pka of the acid analyte was determined to be 3.655 furthermore using the stoichiometric ratio between the naoh and the acid analyte 1:1 we could experimentally determine the number of moles of the acid in the solution to be 0.00731 moles making the experimental molar mass

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web titration experiment in the neutralization of hydrochloric acid by sodium hydroxide the mole ratio of acid to base is 1:1 $\text{HCl} + \text{NaOH} \rightarrow \text{NaCl} + \text{H}_2\text{O}$ 1 mole of HCl would be fully neutralized by one mole of NaOH

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web conclusion the identification of an unknown solid acid the purpose of this experiment was to determine the standardization of sodium hydroxide NaOH and oxalic acid $\text{H}_2\text{C}_2\text{O}_4 \cdot 2\text{H}_2\text{O}$ and the molar mass of an unknown solid acid using the molar mass of the standardized sodium hydroxide solution

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web specifically an acid base titration can be used to figure out the concentration of an acid or base whether an unknown acid or base is strong or weak pKa of an unknown acid or pKb of the unknown base key terms titration a process where a solution of known strength is added to a certain volume of a treated sample containing an

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web conclusion this lab evaluated an acid base reaction with the volumetric analysis of a standard solution being NaOH reaction with a 2nd substance $\text{H}_2\text{C}_2\text{O}_4 \text{ aq } 2\text{NaOH aq } \text{Na}_2\text{C}_2\text{O}_4 \cdot 4\text{H}_2\text{O}$ to differentiate an acid from a base in a solution a pH scale is used the pH scale ranges from 0 to 14 a pH of 7 is neutral in an acid base reaction

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web this point of titration is referred to as the equivalence point considering the 1:1 stoichiometry of this acid base reaction $\text{NaOH aq } \text{C}_6\text{H}_4\text{COOH aq } \text{C}_6\text{H}_4\text{COONa aq } \text{H}_2\text{O l}$ the point of equivalence is the point of titration when the number of moles of NaOH added is equal to the number of moles of KHP in the