

Name _____

Metal Marvels: How Acids React and What They Produce

Open-Ended Response Questions

1. Investigate and discuss practical applications of the reaction between acids and metals in various industries or everyday life. Provide examples of how this knowledge is used in technology or manufacturing.
2. Imagine you are conducting an experiment to demonstrate the reaction between zinc and hydrochloric acid to a group of students. Describe the materials and equipment you would need, the steps involved in the experiment, and the expected observations and outcomes.
3. Research and explain the concept of noble metals and their limited reactivity with acids. How is this property utilized in specialized fields like jewelry making or electronics manufacturing?
4. Explore the environmental implications of using acids to react with metals in various processes. Discuss potential challenges and solutions for managing the byproducts of these reactions in an eco-friendly manner.

