

Name \_\_\_\_\_

## The Sour Side of the Sea: Understanding Ocean Acidification and Its Impact on Marine Life

### Open-Ended Response Questions

1. Ocean acidification affects a wide range of marine organisms, from microscopic plankton to charismatic megafauna like whales. Explain how disruptions in the marine food web caused by ocean acidification can impact ecosystems and human societies that depend on the ocean.
2. Imagine you are a marine biologist tasked with studying the effects of ocean acidification on a coral reef ecosystem. Describe the research methods and tools you would use to investigate this issue and propose potential conservation measures to protect the reef.
3. Collaborative international efforts are essential to address the global challenge of ocean acidification. Explore the role of scientific research, policymaking, and public awareness in combating this issue and protecting the world's oceans.
4. Ocean acidification is a complex problem with interconnected causes and consequences. Discuss how reducing carbon emissions, protecting vulnerable marine species, and supporting sustainable practices can contribute to a healthier and more resilient ocean environment.

