**Text-Dependent Questions and Writing Prompt for Complex Text**

**Article Title:** Coral Reefs Defy Ocean Acidification Odds in Palau

**Vocabulary Questions:**

1. The author references the process of *ocean acidification* throughout the article and the effects it can have on coral reefs. What is *ocean acidification*?
2. In this study, scientists found many of the coral reefs in Palau were not showing the usual responses to ocean acidification except for an increase in *bio-erosion* caused by *boring* organisms. What is the definition of *boring* in reference to *bio-erosion*?

**Text Evidence/Content Questions:**

1. Using evidence from the text, explain why a decrease in the pH of ocean water is considered to be detrimental for coral reefs and other marine organisms.
2. How have the coral reefs in Palau surprised the scientists in regards to their response to ocean acidification, and why does this require further research?
3. Why is coral reef health important for ocean ecosystems?

**Writing Prompt:**

Use evidence from the text to explain why this study of coral reefs in Palau is important for other coral ecosystems and why the results from this study were unexpected and significant.