



Article Guide: The high costs of sea level rise

<http://scienceovereverything.com/2018/10/29/sea-level-rise/>

Part 1:

Directions:

- Read the entire article “The high costs of sea level rise” to yourself
 - Box vocabulary words or words that you have not seen before
 - Underline in the text where the focus questions are addressed
- Answer each focus question

Focus questions

1. Why is land ice melting and how does it contribute to sea level rise?

2. How does thermal expansion contribute to sea level rise?

3. What are two ways that sea level rise will hurt humans?

Part 2:

Directions:

- Read each understanding question
 - Think about what you would need to know to answer that question
- Read the article a second time with a partner.
 - Answer each understanding questions together

Understanding questions

1. Explain how increased flooding in coastal areas due to sea level rise will affect the people who live there?

2. Explain how the loss of coastal wetlands will make flooding more damaging.

Part 3:

Directions:

- Read the article a final time as a class.
- Discuss as a large group how you would address the extension question
 - Write a response to the extension question

Extension Question

Imagine you are an urban planner of coastal city in South Carolina. The mayor has asked you to put a plan together to protect homes, buildings, and infrastructure from rising sea levels. Your part of the country can also get hit with hurricanes, which have increased in intensity as the planet warms. Choose one of the following three strategies to present to the mayor: 1. Building a concrete sea wall 2. Restoring 500 acres of coastal wetland or 3. Providing relocation assistance to the residents in the area. Then explain why your plan is the best way forward, addressing both the positives and negatives.
