**Unit 5 Notes/Activity: Shoreline Erosion—Prevention and Repair**

1. Access this website: [What is shoreline erosion?](https://www.americangeosciences.org/education/k5geosource/content/rocks/what-is-shoreline-erosion)
2. Read the section entitled “What is shoreline erosion?”.
3. Answer the following questions based on what you read:
   1. How do beaches form?
   2. Are beaches stable/consistent landforms? Why or why not?
   3. What 3 things cause changes to coastlines?
   4. Based on the examples given, which of those 3 agents of shoreline erosion has the most impact?
4. Complete the table provided by researching the various methods for preventing and repairing shoreline erosion. Several websites have been pulled to help you get started—use these first!
   1. [How do you deal with shoreline erosion?](https://www.americangeosciences.org/education/k5geosource/content/rocks/how-do-you-deal-with-shoreline-erosion)
   2. [StormSmart Properties Fact Sheet 6: Sand Fencing](http://www.mass.gov/eea/agencies/czm/program-areas/stormsmart-coasts/stormsmart-properties/fs-6-fencing.html)
   3. [Shoreline Engineering: Stabilizing the Unstable](http://coastalcare.org/educate/shoreline-engineering/)
   4. [Shoreline Structures](http://www.beachapedia.org/Shoreline_Structures)
   5. [Beach Erosion](http://whyfiles.org/091beach/4.html)
5. Complete the crossword puzzle.

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| **Structure/Action** | **What They Are** | **Diagram** | **How They Work Against Erosion** | **Positive Aspects** | **Drawbacks** |
| **Sand Fences** |  |  |  |  |  |
| **Seawalls** |  |  |  |  |  |
| **Breakwaters** |  |  |  |  |  |
| **Groins/Groynes** |  |  |  |  |  |
| **Jetties** |  |  |  |  |  |
| **Beach Nourishment/ Renourishment/ Replinishment** |  |  |  |  |  |