

# SPARTINA BEACH ACTIVITY

The **GOAL** of this activity is to **improve the resilience of Spartina Beach**.

The federal government has given the City of Spartina Beach **\$1,000,000** to improve resiliency and decrease hazardous flooding. The Mayor of Spartina Beach has invited stakeholders (small business owners, environmental scientists, public works professionals, homeowners and large developers) to a special meeting to decide how to use these funds.

## STUDENT INSTRUCTIONS:

1. Review the priorities for the stakeholder group you are a part of, found on the card you've been given about your group.
2. Review the map and description of Spartina Beach on **WORKSHEET 1**.
3. In your group, discuss the **LAND USE TYPES** and **RISK LEVELS** of Spartina Beach. (Risk levels -Low, Medium, High- refer to how likely an area is to flood or be damaged by extreme weather.)
4. Review the **SOLUTIONS CARDS** for different ways to improve resilience. (*Each solution has \$ symbols and water droplets on them; \$ represents the cost to use the solution; Water droplets represent the positive impact the solution will have on the community/environment.*)
5. Your group has been given 20 \$ cards worth \$10,000 each. For every \$ symbol listed on a solutions card, you must use one \$10,000 bill. (*For example, to build 1 sea wall or hardened shoreline, you must use 4 \$ cards = \$40,000*).
6. Discuss as a group how you want to use your money to improve the resilience of your assigned zone. (*Keep in mind, the objective is to get the greatest number of water droplets using the money you've been given while keeping the interests of your group in mind.*)
7. Fill in the table on **WORKSHEET 2**. Calculate \$ spent (column C) and environmental quality (column E).
8. Have your group's spokesperson share the solutions you chose with the class and explain why your group made those choices. Listen to the other stakeholder groups as well, considering their perspectives.
9. You will complete **WORKSHEET 3** after hearing from all stakeholder groups. If you want to keep your responses the same as on **WORKSHEET 2**, that is fine, but this is your opportunity to make changes.
10. After your group has finished **WORKSHEET 3**, there will be one final discussion among all stakeholder groups about the best solutions for increasing the resilience of Spartina Beach.
11. Use **WORKSHEET 4** to record the final solutions that all stakeholder groups agree on after the community-wide discussion.

## REFLECTION QUESTIONS:

Which solutions were the most used? Which solutions gave the highest environmental quality rating? Why do you think this is so?