

JR-SCIENTISTS

BEACH EROSION

This fun and easy ocean science activity is sure to be a hit with your kids, with hands-on learning!

INSTRUCTIONS:

STEP 1: Add about 5 cups of sand to one side of your pan. You will want to build it up on a slope so when water is added the sand is higher.

STEP 2: Place some rocks or shells in the sand for a beach theme!

STEP 3: Fill a small bottle with water, add a drop of blue food coloring, shake and pour into the deep part of the pan.

STEP 4: Add 4 more cups of water.

STEP 5: Use the empty bottle to press up and down in the water to make waves.

STEP 6: Pay attention to how the water affects the sand. What happens if the waves move faster or slower?

SUPPLIES

White paint pan
Rocks
Sand
Water
Blue food coloring
Plastic bottle
Large pan or tray

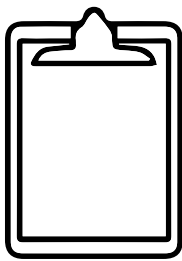
WHAT IS BEACH EROSION?

Beach erosion is the loss of beach sand, usually from a combination of wind and water movement such as waves and currents. Sand is moved off the beach or shore by these things and is transferred to deeper water. This process makes beaches appear shorter and lower. You can see severe beach erosion after a strong storm like a hurricane.



Beach Erosion Observations

Use this worksheet to process and evaluate your work.



RECORD

What do you think will happen to the sand?

What did you see? Did the end result look like you thought?

What happens if the waves move faster or slower?

Why are the ocean levels rising on Earth?
