

Beach Front Property



Procedure

Materials Needed

- Plastic tub or metal baking pan
- Sand
- Wooden block or sponge
- Water
- plastic houses or blocks

1. Place the plastic houses or blocks on the sand a few inches from the edge of the water.
2. Measure the distance from the houses to the edge of the beach. Measure the area that the sand covers. Draw what the beach looks like once you have set it up, and label it with your measurements.
3. Then draw a profile of the beach and include the measurements. (A profile is how the beach looks when you view it from the side of the container).
4. Place the wooden block or sponge in the container at the opposite end of the sand. Move it back and forth to create ten gentle waves. Make sure you are holding the block parallel to the beach.
5. Measure the area that the sand covers and the distance from the houses to the edge of the water. Draw a picture of the beach and the profile after this step, include the measurements.
6. Now repeat the steps, but create ten stronger “storm strength” waves.

What do you understand about moving water as an agent of erosion? How do you know?