



**CALIFORNIA STATE SCIENCE FAIR
2010 PROJECT SUMMARY**

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| Name(s) Juliana Reyes; Larissa Rocha | Project Number J0713 |
| Project Title Wash Out | |
| <p style="text-align: center;">Abstract</p> <p>Objectives/Goals My goals are to determine how slow low energy waves versus the high energy waves could affect the beach.</p> <p>Methods/Materials Methods: Step1: cover the shallow end of the paint roller pan with 1 quart of sand, making a beach. Step2: pour 2 quarts of tap water in the deep end of the pan. Step3: note the way the beach looks after you pour in the water. Step4: make waves by laying a pencil gently on top of the water, then slowly move the pencil up and down 1 inch (2.5 cm) into the water each time. Note: Repeat 3 times each using different things in water. Example: Toy cars on beach, twigs in water, and rocks in water. Step 5: Then observe the "beach" after the water waves hit against it. Materials: Pencil, Paint-roller pan, 2 quart (2 liters) of tap water, 1 quart (1 liter) of sand, little toy cars, twigs or little pieces of wood, rocks (small).</p> <p>Results With Sand: After two minutes of making study waves the sand began to erode after another one and a half min. more sand began to go with the waves. With the twigs: The sand barely moved. With the cars: the sand didn't move but started sinking. With rocks: little amount of sand was washed away.</p> <p>Conclusions/Discussion For our conclusion we concluded that high energy waves made more damage to the beach than low energy waves.</p> | |
| Summary Statement Heavy waves of the beach wash out the sand causing erosion. | |
| Help Received PARENTS HELPED PUT SOME MATERIALS TOGETHER | |