



Bienestar

Building housing, hope and futures

All Kids are Scientists- A.K.A. Science February 18, 2011- April 8, 2011 Outcome Report

Bienestar purchased an A.K.A Science water curriculum through Oregon Health Career Center's A.K.A. Science Program. We received a box filled with experiments all about water for students from fourth to sixth grade. A.K.A Science Club was held in the Community Room of Montebello, 220 SE 12th Ave. Hillsboro, OR. A.K.A Science Club ran for seven weeks on Friday afternoons from 3:00-4:00 p.m. beginning February 18, 2011 and ending April 8, 2011 with nine registered students from Montebello and Sierra West. The class was taught by Program Coordinator, Elena Barreto with help from Youth Program Coordinator Javier Urenda.



During class students partook in a variety of experiments that helped them understand the importance of water, including its properties, the uses of water and what we can do to preserve it. Among these they learned specifically about surface tension, adhesion, cohesion, how much of earth's water is potable, acids and bases, pH (power of Hydrogen), vortexes, pollution, filtration, water pressure, and waterways. Students held Water Olympics to understand surface tension, adhesion, and cohesion; they determined how many drops of water could fill a penny without overflowing, how soap breaks surface tension, and getting paperclips to float on water without breaking the surface tension. They conducted experiments to determine which clear liquid was water among seven other clear liquids, and discovered water's properties through this. They tested the pH of a variety of liquids to find out what they were, built vortexes and water wheels. Finally they learned how to filter water, and attempted to clean water contaminated with oil and dirt, realizing how easy it is to contaminate water and how difficult it is to clean it.

Attendance

Nine children registered for A.K.A Science, five from Montebello, and four from Sierra West. Four were in fourth, two in fifth and three in sixth, and on average seven students attended each week.

Outcome (see analysis on website for specific results)



Students entered the class with some knowledge of water. In school they had already learned the states of water and some of its properties, but this was the extent of their knowledge about water. Through hands-on experiments and a few demonstrations, the students learned how important water is as well as its properties, its ability to create power, the neutrality of water compared to other liquids, and the importance of keeping the little drinkable water on earth clean.

Through the pre-assessment and post assessment we discovered that the students ended the class with more interest in science than when they began. More students said science was their favorite subject, it was fun, and believed they could perform experiments and learn about scientific ideas. More students also believed A.K.A Science Club could help them in school, and as a result more students said they liked school now than at the beginning. The students improved on all of the questions on the assessment except for the two acid and pH questions which is a hard concept to grasp in one hour. The students had excellent attendance and came interested and excited about the day's activities.



Students attempting to decontaminate their water

Respectfully Submitted,

Elena Barreto
Program Coordinator