



# FUN and LEARNING in the Water...



## Water Education Series (for 4th and 5th grades)

Thanks to a grant from the [Alameda Countywide Clean Water Program](#), the [Livermore Area Recreation and Park District](#) is able to provide this series free of charge to 4th and 5th grade classes in the tri-valley. The series is presented by LARPD rangers and consists of two in class programs (one hour each) and a field trip (1 ½ hours long) to a local creek where students will put into action what they have learned.

### Water Flows: What's a Watershed?



The concept of a watershed becomes clear as students actively explore how water moves through mountains, valleys and towns, and affects the health of the people and animals that live there. After this program, students will understand how litter contributes to storm water pollution and can affect our creeks and bay. They will be able to identify potential sources of pollution in their neighborhoods and at school, and find ways to help prevent our watershed from being negatively impacted. Standards met: 4-ESS2.CC; 5-ESS3.C

### Stream Life I: What Can You Learn From a Water Bug?

The second program in this series will build on what students have learned so far to prepare them for their field trip to a stream. They will learn about aquatic insects and other water-loving creatures and how they can be indicators of stream health. Students will discuss the aquatic food web, and see how easy it is to disrupt. They will test the pH of several liquids and brainstorm other ways to evaluate stream health. After this program, students will be ready to visit the stream as scientists. Standards met: 4-LS1.A; 5-LS2.A



### Stream Life II: A Scientist's Look at a Stream

Now that students have an understanding of ways to examine stream health, it's time to put what they have learned into action. Students will visit a local creek, perform aquatic insect sampling, record data, measure pH, take measurements and examine the stream for signs of pollution and human influence. They will analyze their data and discuss their findings in the context of what their research indicates about the health of the local watershed. 4-ESS2-1.SEP / 4-PS3-2.SEP; 4-ESS2-2; 5-PS1.CC; 5-PS1.SEP

#### Scheduling

For more information or to schedule programs, call the Ranger Office at (925)960-2400 or email [rangers@larpd.org](mailto:rangers@larpd.org).