



## Middle Harbor Naturalist Fieldtrips 2009

*Programs can be modified for different grade levels based on teacher's requests*

*Correlations to CA State science standards available upon request.*

**Bay Discovery!** (Grade K & I) program length: 1 hour

Discover the wild animals and plants who call the San Francisco Bay Estuary home. Students will engage in hands on activities, guided discovery and exploration along the shoreline while learning how this habitat is connected to their lives.

**Mountains to Mud** (Grade 2) program length: 1.5 hours

Follow the journey of a big rock as it becomes many smaller rocks that travel to the bay. Students will collect and compare sediments from the sandy shore and the muddy bottom then investigate the diversity of life in both habitats. Students will participate in collecting mud using a benthic grab and take a closer look at small invertebrates using microscopes.

**M.A.D. about Adaptations!** (Grade 3) program length: 1.5 hours

Explore Middle Harbor in search of wildlife and get a "bird's-eye view" of the difficulties to surviving on the wild shoreline. Through fun interactive games and on-site bird discovery, students will understand that if we can't change we can't survive! Your students will come away being bird enthusiasts and excited to learn about birds in their own neighborhood.

**West Oakland to the World** (Grade 4) program length: 1.5 hours

Discover how chocolate, bananas and the clothes we wear come from all over the globe! Students will learn California and local history by interactive trade games and taking a walk back in time to discover the many stories held in the landscape at Middle Harbor. Students will understand how the gold rush, transcontinental railroad, WWII and global trade has shaped West Oakland and continues to connect us to the world.

**The Wild West** (Grade 5 & Up) program length: 4 hours

What wild creatures live in the bay? What went on in West Oakland's past that shapes our shared history? In this program your students will engage in hands-on science exploring the living, non-living and cultural components of the San Francisco Bay. Students will collect and test water, observe creatures that live in the mud through microscopes and discover the many cultural resources of this site. This is a full day program (9:30am - 1pm) and will require students to have lunch on site.

### Middle Harbor Shoreline Park

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