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Environmental Science AP Fund:

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Please make your tax-deductible donation payable
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Mail your donation to:

El Molino High School
7050 Covey Road, Forestville, CA
Attn: Kimberly Nyberg

Write on check: **Environmental Science AP Fund**

El Molino High School Tax ID# 94-6002635

El Molino High School Environmental Science AP Program

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Forestville, CA 95436

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Environmental Science Advanced Placement Program

El Molino High School

A Legacy Of Environmental Leadership

El Molino High School's approximately 50 acre campus lies within the headwater area of Green Valley Creek, which drains to the Russian River in Sonoma County. The Russian River provides habitat for endangered salmon and steelhead, drinking water for many communities in Sonoma and Marin counties, and recreational opportunities for visitors and residents alike.

In Sonoma County, our quality of life and economy depend on the protection of the natural environment. Many local agencies, organizations, and businesses have become leaders in efforts to protect our water, air and soil, and ensure a vibrant, sustainable local economy.

El Molino High School is seeking community partners to invest in the creation of an **Environmental Science Advanced Placement** program during SY 2010-2011 to continue this legacy of environmental leadership.

With the support of this community, the **Environmental Science AP** program at El Molino High School is a unique opportunity to stimulate and sustain the interest of young people in Environmental Science.



What is the Program?

The **Environmental Science AP** program provides students with the scientific principles, concepts, and methodologies required to understand the inter-relationships of the natural world, to identify and analyze environmental problems both natural and man-made, to evaluate the relative risk associated with these problems, and to examine alternative solutions for resolving or preventing them.

The **Environmental Science AP** course includes a strong laboratory and field investigation component that provides students with opportunities to perform experiments and analyses involving air, water and soil qualities.

Plans for Year 1 include:

- Develop a stewardship map for the school campus, including maps with drainage, vegetation, soils, habitat, and inventory of plant and wildlife species.
- Water quality monitoring to answer the following questions: What are the pollutants running off campus? What are the sources and where do they end up?
- Develop solutions for water quality improvement.

"We have learned about the need to improve stream flows to ensure the viability of future generations of coho salmon. Connecting students with environmental science field experiences in the Russian River area would create the perfect spawning conditions for the next generation of environmental scientists."

~ Julian Bauer, 11th grade, El Molino HS

Make a Difference!

El Molino High School recognizes the critical need to support broader public literacy in environmental science and to offer training and development opportunities for a future environmental scientist workforce.

A recent study on workforce challenges related to science and technology conducted by the US Department of Labor noted serious deficits in K-12 science preparation and low engagement of minority, female, and low-income students in these critical fields. As we confront the serious threats posed by climate change and depletion of natural resources, it is imperative that we take steps to promote a deeper public understanding of the underlying scientific processes that influence these events and develop a diverse workforce that can address these challenges. The critical transition from high school to college has been identified as a key opportunity to spark interest and promote opportunities in these fields.

"I want to share the feeling of empowerment that I experienced as a teen and hope to inspire a new generation of environmental scientists and active global citizens."

*~ Kate Oitzinger
Environmental Science teacher*