Getting Out Gets Results: Environmental Education Research from Boston and Beyond

Presented by the Boston Youth Environmental Network

Environmental Education:

- Gets students excited about learning
- Enhances measures of academic achievement
- Builds a life long environmental stewardship ethic
- Encourages people and groups to come together

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EE Research Shows Promising Results in:

**Student Engagement**

Environmental education programs immerse students in their physical surroundings. A field-based urban ecology program in Boston helped students (especially girls) connect to their community through scientific investigation. Students in research from across the country, have shown more interest in learning when their programs used the environment as a context for integrating math, language arts, social studies, science, and/or the arts. Extensive research exists documenting the link between enthusiasm for learning and subsequent academic achievement. It is little surprise that kids learn better when their hands and minds are actively engaged.

**Academic Achievement**

At least a dozen recent research studies have documented positive associations between environmental education and student academic achievement. These collectively represent 16 states and nearly 300 schools. Many of these studies have included extensive analysis of standardized test scores. Boston schools with renovated school yards were associated with higher MCAS scores in Math. Other research has shown that students involved in environmental education demonstrated improved critical thinking, a better ability to apply science to real-world situations, and improved science knowledge. Some of these studies also showed environmental education to be associated with higher GPA, better attendance, and/or other measures of academic achievement.

**Environmental Stewardship**

Children’s involvement in environmental education can provide a foundation for environmental stewardship behavior. A study that presented data from several schools across New England, including Boston, showed that students with more environmental education were more likely to report taking action to help the environment. An evaluation of a Boston-based program emphasized the importance of providing young people with initial and repeat outdoor experiences. Early adolescents in another study reported more confidence in their own capacity to make a difference and displayed more optimism for the future as they worked with other students on environmental issues. Yet, education is only part of the story of getting kids outside. Adults (in or out of school) can be a significant influence in nurturing children’s interest in the environment. Feelings of safety and security have been identified as being important to a child’s ability to bond to a place. Childhood experiences of special natural places, often with the companionship of a caring adult, have been reported by adults as top reasons for their continued involvement in environmental engagement and activism.

**Connections and Collaboration**

Environmental education is about understanding the interconnectedness of our surroundings, and it is about studying local places. These features create excellent opportunities for making connections between new groups and ideas. Environmental education can encourage connections across generational lines when projects have children become the experts and then teach their parents. Projects involving school grounds can be used as opportunities for collaboration with people working in other related fields and to promote involvement in issues of children’s physical, social, mental, and spiritual health. A Boston study provided several useful recommendations for ways environmental education programs can build connections across cultural lines through increased cultural competency. The Boston Youth Environmental Network is a prime example of how environmental education brings people together.
Teacher: “I think that’s how stewardship starts. Kids are connected to this place so they’re taking care of this place. Maybe as they get older they’ll understand that they’re responsible for their neighborhood and their city.”

Parent: “There is that sense of like, the school’s really giving my family something.”

Principal: “It’s one thing to teach children through books, but it’s another thing to do hands-on with them so they can actually see these life lessons. They seem to stick with them a lot quicker and a lot longer than the actual book knowledge.”

Student: “It’s a good experience to find all about nature and see what the world is all about.”

Research References


Voices and faces from the Boston Youth Environmental Network:
Boston Youth Environmental Network

is a group of organizations dedicated to advancing environmental literacy and stewardship. We speak with a single voice to inform policy. We work together to develop relationships, strategies, opportunities, and resources by partnering with and informing teachers, families, children, policy makers, and each other.

The BYEN Vision

By the year 2020 young people in Boston's K-12 schools, after-school, and summer programs will have an appreciation for the environment that is based on high quality, active, engaging, and culturally relevant learning and employment opportunities in their community and beyond.

BYEN Member Organizations (K-12):


For more information go to
www.environetwork.org