

## 2010 STREAM Classroom Awards – Cost/Benefit Analysis

Name	School Name	Awarded	Plans	Students Per Year	Cost
James Clark	Chicopee Comprehensive High School Chicopee, MA	LEGO Mindstorms	Science club. Collaborating with Holyoke Community College. Botball or Botfest participation with club.	120	\$3030
Anne Sullivan	J.W. Martin Middle School North Attleboro, MA	LEGO Mindstorms	Introduce 5 <sup>th</sup> grade students to real world engineering challenges. Will also start an after school robotics club.	60	\$830
Chris Connors	Pembroke High School Pembroke, MA	Arduino System	Will use in 3 classrooms and in a new after-school club. Developing a project for middle school students.	75+	\$2700
Dawn Marshall	Fitchburg High School Fitchburg, MA	7 Artbotics* Kits and cars	After school program, eventual integration into classroom. Collaborating with Fitchburg Art Museum and Mt. Wachusset Community College.	12	\$1120
Kathleen Gasbarro	Woodside Montessori Academy Millis, MA	5 Artbotics* Kits and cars	Pilot 10-week after school program incorporating art. Goals - attract girls and eventual incorporation into science curriculum.	20	\$800

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Laura Smith	Lexington High School Lexington, MA	10 Artbotics* Kits and cars	Social skills class for autistic, physically challenged and special needs. Will also use in HS expressive arts class.	10+	\$1600
Karen Mahoney and Cindy Gould	Sky View Middle School Leominster, MA	10 Artbotics* Kits and cars	2.5 hour after school club, grades 6-8. Collaborating with the 21 <sup>st</sup> Century program.	20	\$1600
Christina Salinas	Del Mar High School San Jose, CA	3 Artbotics* Kits and cars	Will use in classroom with advance 3D Art students, demonstrations and art shows. Collaborating with a teacher who does Botball.	6	\$480
				<b>323+ Students Per Year</b>	<b>\$12,160** Start up costs (non-repeating)</b>
				<b>Per Student Cost (1<sup>st</sup> year only, non repeating)</b>	<b>\$37.64**</b>

\* Artbotics kits and cars provided by one-time special grant from CAITE (Commonwealth Alliance for Information Technology Education) which allowed us to receive volume discounts.

\*\* This is the actual cost, including volume discounts and direct ordering from the manufacturer. Without discounts and high volume direct-order pricing for the Artbotics kits (no middle-man) the total cost would have been \$20,560. Per student cost without the volume direct-order pricing would be \$63.65 (1<sup>st</sup> year only, non-repeating expense)