

ENVISION TEAMS – REPLICATION EFFORTS

(Updated 12/19/15)

2015 – 2016

Following is a list of communities that participated in the 2015 Envision the Future Program with the Team contact for each Team. Envision replication efforts include presentations to community organizations and organizing STEM events for community members, boys and girls, and girls only. In many communities, 2015 Envision Girls are taking an active role in planning STEM events and presenting workshops at community events, to elementary students, and for their classmates. Envision Team members have been very impressed with their poise, enthusiasm, and commitment to replicating Envision elements.

The information below includes 2015 replication presentations and events and those planned for 2016. Some Teams are in the planning process and have not listed specific replication efforts. Contact them if you would like to find out what they have decided to offer in 2016.

AVON

TEAM Contact:

Patricia McGaffigan – Avon Middle School - pmcgaffigan@apps.avon.k12.ma.us

Neal Klayman - Avon Middle School, Assistant Principal - nklayman@avon.k12.ma.us

2016 Envision Replication Initiatives

- STEM club extracurricular activity
- Week long summer camp directed at upper elementary grade girls.

ATTLEBORO

TEAM Contact:

Linda Ferreira - Attleboro Public Schools - Math Curriculum Coordinator K-8

lferreira@attleboroschools.com

2015 Envision Girls Present

- **November 2, 2015 - 2015 Envision Girls and Linda Ferreira, Envision Team Contact, presented to the Attleboro School Committee.** Attendees included 9 committee members and approximately 10 other attendees including assistant superintendent, coordinators, teachers and high school students. The presentation was seen on the Attleboro cable station that reaches 13,500 households.
- **November 9, 2015 – STEM Activity Fair**
2015 Envision Girls participated in planning for the STEM Activity Fair and Food Car activity at the event. Two hundred and fifty (250) 4th grade students and their parents engaged in 20+ activities that involved creative problem solving and collaboration and focused on opportunities to build, create, code, plan and design. Volunteer presenters included 10 students from the Attleboro High School Career Technical and Engineering (CTE) Department and Keri McInnis, CTE Engineering Teacher. Observers included three Attleboro School Committee members who were pleased that activities reflected “real life” experiences.

2016 Envision Replication Initiatives

- **Mentoring Program – 2015 -2016**

2015 Envision Girls from Attleboro, Mansfield and Norton are meeting once a month with engineers from Sensata Technologies. All the girls who participated in the 2015 Envision program are participating in the Sensata mentoring program – four (4) from Attleboro, two (2) from Norton, three 3 from Mansfield. Sensata provided financial support for girls from Norton and Attleboro to attend the 2015 Envision the Future program.

- **January 30, 2016 – STEM Saturdays**

STEM Saturdays were initially planned by the Attleboro Envision Team before the Envision program in July 2015. Since then, the Attleboro and Norton Envision Teams decided to collaborate and offer the first in a series of STEM Saturdays on January 30, 2015. 2015 Envision Girls and Team members are planning the event and presenting STEM Saturday activities.

January 30, 2015 – STEM Saturday

“STEM in MOTION” Open to students in 5th and 6th grade from Attleboro and Norton.
Time: 9 – 11AM Location: Coelho Middle School

- **February – Rube Goldberg Contraption Project**

Attleboro is one of ten communities in Massachusetts selected to participate in creating a chain reaction machine that will be showcased in a film that Governor Charlie Baker will introduce on April 15th at the Cambridge Science Festival's Big Ideas for Busy People event. It is a wonderful opportunity to show the diverse make-up of the Attleboro STEM Community Team and how Attleboro STEM Stakeholders work collaboratively in a variety of ways.

Sensata Technologies

Along with 2015 Envision girls from Attleboro, Norton and Mansfield, who participants in the Sensata Mentoring program, Sensata employees, Attleboro students, and representatives of community organizations will create a Rube Goldberg contraption(s). Selected contraptions will be part of an exhibit at the Attleboro Area Industrial Museum.

The contraption(s) should complete a task in 55-65 seconds and focus on an aspect of Attleboro which could include industry – Sensata Technologies, Ten Mile River, Attleboro architecture, history etc.

Contact: Emily Haidemenos - ehaidemenos@sensata.com

BROCKTON

TEAM Contact:

Joan Farrington - Coordinator of Math and Science 6-8, Brockton Public Schools
joanfarrington@bpsma.org

2016 Envision Replication Initiatives

- TBD

CANTON

TEAM Contact:

Danette McGovern, Canton Public Schools - mcgovernd@cantonma.org

2015 Envision Girls Present

2016

- January – presenting to Canton School Committee
- March - participating in the Canton March STEAM EXPO which is free and open to the

community. In the past, attendance has exceeded 1,000 and included community members of all ages.

Envision Replication Plans & Impact

- The Envision Replication Team members and the Envision girls are meeting to plan an after school STEAM Environmental Club that will run from January-March at the Galvin Middle School
- The Envision girls will participate in the Canton STEAM Expo on March 16, 2016. The Envision girls will participate in the planning and will present an activity. They will also assist with a Coding Activity learned at Envision the Future.

ENVISION REPLICATION INITIATIVES

- STEAM EXPO - Free and Open to the Public - March 16, 2016 - Canton High School
Expo theme will include sustainability.
 - Exhibits and hands-on activities in the arts, science, technology, engineering and math.
 - For preK –elementary – middle school – high school students and adults
 - Presented by educators and representatives of business and community organizations

DENNIS YARMOUTH

TEAM Contact:

Marsha Fredericks - busywomanc@comcast.net

Sandra Locke, STEM Coach D-Y Public Schools - lockes@dy-regional.k12.ma.us

2016 Envision Replication Initiatives

- The three girls who attended Envision the Future will be making a presentation to the DY school committee early in the new year. They will also return to Mattacheese Middle School to present their experiences to the seventh grade girls.
- AAUW CAPE COD, TAUNTON, AND SOUTH SHORE are working together to present a one day STEM experience at Bristol CC in June. We plan to invite eight women in STEM fields to give a brief overview of how they came to their occupation, how they balance life and work, and a hands on experience for the girls. We will be recruiting 40 girls from each of the three branch areas. Each girl will attend four workshops. We expect to replicate this effort in the fall or winter of 2016/17 at Cape Cod Community College.
- DY SCHOOLS AND AAUW CAPE COD are currently in the planning stages of a week-long residential camp for 7th-9th grade girls at Mass Maritime Academy in the summer of 2016. We expect to be joined in this collaborative effort by representatives from other school districts on the Cape and Islands, as well as the Cape Cod STEM network. This program will be modeled on Envision the Future with our own special Cape Cod outlook.

EASTON

TEAM Contact:

Kerri Murphy, Easton Public Schools - Kerri Murphy <kmurphy@easton.k12.ma.us>

Paula Martel, North Easton Machine - PMartel@NorthEastonMachine.com

2015 Envision Girls Present

- **Sunday, October 4, 2015 NRT 2015 Harvest Fair in Easton**
Over 1,000 Community member of all ages attended. 2015 Envision Girls presented information on the Envision the Future program and replicated one of the Envision activities - Makey Makey.
- Two students on the team assisted with an after school STEM enrichment program at Parkview Elementary School
- **November**
The Children's Museum in Easton has created a Makers Space. The 2015 Easton Envision girls were invited to present an activity to young children visiting the museum.
- **Thursday, December 10, 2015 – Envision Replication Meeting – Bridgewater State University**
Along with providing information on coding to attendees at the Resource Fair, at the meeting the 2015 Envision Girls and members of the Easton Envision Team will make a presentation on their involvement in Envision - decision to participate, securing funding, and the selection process, and the value of replication.

2016 ENVISION REPLICATION INITIATIVES

- Saturdays at the Children's Museum – The envision students will act as staff volunteers in the new makerspace on the first Saturday of each month. the team will lead a variety of STEM activities (2/6; 3/5; 4/2, 5/7 and 6/4 from 1 pm – 3pm)
- February Vacation at the Makerspace – the envision team and Mrs. Martel led the candy airplane activity with over 100 children at the Easton Children's Museum.
- Parkview Elementary – two members of the team are assisting with an afterschool STEM enrichment program
- May 20, 2016 2nd Annual Steam Family Night at Richardson Olmsted Elementary

FALMOUTH

TEAM Contact:

Megan Amsler - Cape & Islands Self-Reliance Corp. - megan@reliance.org

2015

- Presentations to Falmouth teachers and parents

2016 ENVISION REPLICATION INITIATIVES

- January - after school STEM activities in the Falmouth Public Schools
Meet on Mondays for 8 weeks. 2015 Envision Girls - peer leaders in STEM activities.

FOXBOROUGH

TEAM Contact:

Susan Abrams - Foxborough Public Schools, Principal John J. Ahern Middle School

abramss@foxborough.k12.ma.us

Lauren Goodman - Foxborough Public Schools, Guidance Counselor - John J. Ahern Middle School

Guidance Counselor goodmanl@foxborough.k12.ma.us

2015

- **November - Envision Girls presented to the Foxborough School Committee.**

Attendees included 9 committee members, school administrators and community members. The presentation was taped by Foxboro Cable Access.

2016 Envision Replication Initiatives

- The Envision Team will share their experiences with grade 4 students in the district aligned with their unit of study on electricity. They will demonstrate and invite students to make connections as a preparation for unit study. Subsequent activities will be determined at the conclusion of this initiative.

MANSFIELD

TEAM Contact:

John Shannon - Mansfield Envision Replication Team - jshannon1725@gmail.com

Deborah Fournier - Mansfield Public Schools - Deborah.Fournier@mansfieldschools.com

2015

- **December 10, 2015 - Bridgewater State University**
Along with Math into Music presented by the 2015 Mansfield Envision girls, the Mansfield Envision Team and will present plans for the STEM Fair they plan to hold in 2016.

2016 Envision Replication Initiatives

- **Mansfield STEM Fair**
The 2015 Mansfield Envision girls will work with the Mansfield Envision the Future Team to plan a STEM Fair that will provide opportunities for Mansfield middle school students to explore STEM careers and engage in challenging STEM activities that inspire creativity. Team members include STEM professionals, educators, parents and representatives of area businesses, the Y, and the MA Legislature. The STEM Fair will replicate some of the activities presented at the Envision program as well as activities developed by the girls who attended.

NEWTON

TEAM Contact:

Bruce Henderson - Newton STEM editor - info@newtonstem.org

Tamara Brogan - Newton Boys and Girls Club - tbrogan@newtonbgc.com

2015

- **Saturday, Nov. 14, 2PM-4:30PM, Newton Free Library's Druker Auditorium**
Brought together about 100 middle- and high-school girls with 16 women STEM professionals. Showed the documentary, [Big Dream](#) and followed it with many small-group discussions. The event was sponsored by the John M. Barry Boys & Girls Club, the Newton Free Library, and Newton STEM.

2016 Envision Replication Initiatives

- TBD

NORTON

TEAM Contact:

Jennifer O'Neill - Norton Public Schools, Curriculum & Instruction K-12, joneill@norton.k12.ma.us

Jason Henry-Norton Public Schools, Academic Coordinator 6-12 Science -

jasonhenry@norton.k12.ma.us

2015

- **Mentoring Program – 2015 -2016**
2015 Envision Girls from Attleboro, Mansfield and Norton are meeting once a month with engineers from Sensata Technologies. Sensata provided financial support for girls from Norton and Attleboro to attend the 2015 Envision the Future program.
- **Replicating with 5th and 6th Grade Students**
The Envision Teams are promoting programs directly to the classrooms of 5th and 6th grade students.
- **Thursday, December 10, 2015 – Envision Replication Meeting – Bridgewater State University** The 2015 Norton Envision Girls will illustrate impact of Envision and the Envision Team will showcase 2016 Envision replication efforts.

2016 Envision Replication Initiatives

- **STEM Saturdays**
Collaborating with the Attleboro Envision Team to offer the first in a series of STEM Saturdays on January 30, 2015. 2015 Envision Girls and Team members are planning the event and presenting STEM Saturday activities. Envision girls will work with the Sensata mentoring program to run a workshop. Norton High School honor society students will also run a workshop.

January 30, 2015 – STEM Saturday

“STEM in MOTION” Open to students in 5th and 6th grade from Attleboro and Norton.
Time: 9 – 11AM Location: Coelho Middle School

PLYMOUTH

TEAM Contact:

Christine Young – Plymouth Girls and Boys Club - cyuong@bgcplymouth.org

2015

- **Wednesday, November 18, 2015**
2015 Envision participant Rachel Forman presented her Envision project and what she learned at Envision at the Plymouth Girls and Boys Club Executive Board Meeting.

2016

- **Integrating Envision into Existing STEM Curriculum**
Envision Team members met with Rachel to integrate the project Rachel worked on into existing STEM curriculum. The Plymouth Boys & Girls Club is the recipient of a grant from Samsung. The Club received 10 Samsung tablets and curriculum from Scholastic. Rachel will serve as “mentor” and assist her peers in the STEM curriculum applying what she learned at Envision.

SILVER LAKE RSD

TEAM Contact:

Scott Farrell - Silver Lake Regional School District (Kingston - Halifax – Plympton) - sfarrell@slrsd.org
Michelle Chaffee - Silver Lake Regional School District - mchaffee@slrsd.org

2015

- **December 10th Envision Resource Fair and Meeting – Bridgewater State University**
2015 Envision Girls will highlight their experience during the 2015 Envision the Future program and explain how they are involved in planning the 2016 Silver Lake Envision event and how they will be involved in increasing the interest of elementary students in STEM. Silver Lake RSD will provide information on STEM initiatives in the district and the Envision Team's plan to organize a Silver Lake Envision event in 2016.

2016

- **Silver Lake Envision the Future STEM Expo**
Students in the middle school, parents and community members will be invited to attend this exposition of STEM activities. Attendees will explore science, technology, engineering, and math (STEM) activities done by students throughout the previous year. 2015 Envision Girls and Team members will participate in planning the event. Along with presenting STEM Activities, the girls will be asked to assist adult presenters with the implementation of some of the workshops they participated in as part of the 2015 Envision the Future Program.
- The Envision Team will connect with the local cable station, PAC TV, to promote the Envision replication event. They will encourage the 2015 Envision Silver Lake girls to be participate in an interview on cable and perhaps demonstrate Makey Makey as part of the program.
- Envision girls will present to School committee and demonstrate Makey Makey to an elementary (5th/6th grade) school class

SOMERSET

TEAM Contact:

Jeffrey Schoonover, Superintendent Somerset Public Schools - jeffrey.schoonover@somersetps.com

2015

- Plan to present to Somerset School Committee on December 17, 2015.
- Envision Team has met to plan STEM Week 2016, a summer program for students in grades 6-8 that will incorporate Envision workshops in this week long STEM program.

2016 Envision Replication Initiatives

- **SOMERSET STEM Week - Summer 2016 - Somerset Public Schools**
Students in grades 6-8 will be invited to attend a week of STEM activities. Attendees will explore science, technology, engineering, and math (STEM) activities. Activities involve creative problem solving and collaboration and offer students opportunities to build, create, code, plan, and design. 2015 Envision Girls and Team members will participate in planning the Somerset STEM Week. Along with presenting STEM Activities, the girls will be asked to assist adult presenters with the implementation of some of the workshops they participated in as part of the 2015 Envision the Future Program.

WAREHAM

TEAM Contact:

Jane Collins Fondulis - Wareham Public Schools - fondulis@wareham.k12.ma.us
Bonnie Lasorsa - Wareham Public Schools - blasorsa@wareham.k12.ma.us

2016 Envision Replication Initiatives

- TBD

WELLESLEY

TEAM Contact:

Judy Malone Neville - Wellesley Public Schools, Assistant Superintendent - Teaching & Learning
malonenevillej@wellesleyps.org

2016 Envision Replication Initiatives

- 2015 Envision girls will speak to other girls about their Envision experience during a "lunch group" session.
- 2015 Envision girls will present to the Wellesley Public Schools School Committee.

WEYMOUTH

TEAM Contact:

Lynn Howard – Weymouth Public Schools - LYNN.HOWARD@weymouthschools.org

2015 Envision Girls Presented To or Plan to Present To

- **September 26, 2105 – Face the Future Town-Wide Event**
Open to the public – variety of activities were offered relative to careers. Weymouth Envision girls presented Makey Makey to attendees and described the Envision the Future program. They prepared a STEM Career Interest Survey and asked attendees what STEM career was of most interest to them.
- **December 17, 2015 - School Committee Meeting**
The Weymouth School Committee meeting is open to the public and televised on WETC. Envision girls presented to the School Committee focusing on an overview of the Envision the Future STEM program, what they learned from the week and some of their plans for replication.

Envision Replication Plans & Impact

- According to Superintendent Kenneth Salim, he was inspired by the 2015 Weymouth Envision girls he spoke with at the Envision Resource Fair on July 24th and worked with staff to develop and offer “STEM Hot Spots” which features programs throughout the year for community members on STEM topics such as Walk in Great Esker Park, Big Shipwreck Canvas – exploring sonar and shipwrecks, and Hour of Code. The programs are offered in collaboration with organizations such as Stellwagen Bank National Marine Sanctuary, the South Shore Natural Science Center and Weymouth Public School staff and students. For the December STEM Hotspot, the topic will be “Introduction to Computer Coding” and a Robotics themed STEM Hotspot is planned for 2016.
- Weymouth Envision girls will meet with Lynn Howard to plan an afterschool STEM program focused on computer programming for elementary students and will be invited by the Envision Team to meet and plan replication efforts that can be integrated into other planned events such as the Weymouth STEM Conference for Girls, April 9, 2016.
- The Envision Team promotes programs through the Weymouth Educational Telecommunications Corporation (WETC). WETC produced a cable program on STEM in Weymouth as part of its Lens on Learning series. Along with interviewing Envision Team members Superintendent Kenneth Salim, Laura Stevenson and Lynn Howard, the Envision girls were interviewed at the Face the Future event.

2016 ENVISION REPLICATION INITIATIVES

- **STEM Conference for Girls - April 9, 2016 – Weymouth High School**

Workshops presented by STEM professionals and students. It is estimated that 18 workshops will be offered to 65+ Girls in grades 4-8 attendees. Activities involve creative problem solving and collaboration and offer students opportunities to build, create, code, plan, and design. Along with robots, attendees may choose to build egg carton helicopter, or learn how to contain an oil spill, or create a computing code using algorithms, or solve mysteries about milk and soda.

2015 Envision Girls and Team members will participate in planning the STEM Conference for Girls. Along with presenting STEM Activities, the girls will be asked to assist adult presenters with the implementation of some of the workshops they participated in as part of the 2015 Envision the Future Program.