

2016-17 TEFFLA  
Grant Evaluations

# Makerspace – Innovation Stations

- The goal of our grant was to provide elementary students with an enriched learning experience with a Makerspace room/carts. Hands on learning with the makerspace process has increased the engagement of the students. We have had a chance to see large-scale collaboration and exploration around 3D printing, coding robots, and building large-scale simple machines.
- Our students and staff have incorporated the Makerspace room/carts into their daily learning

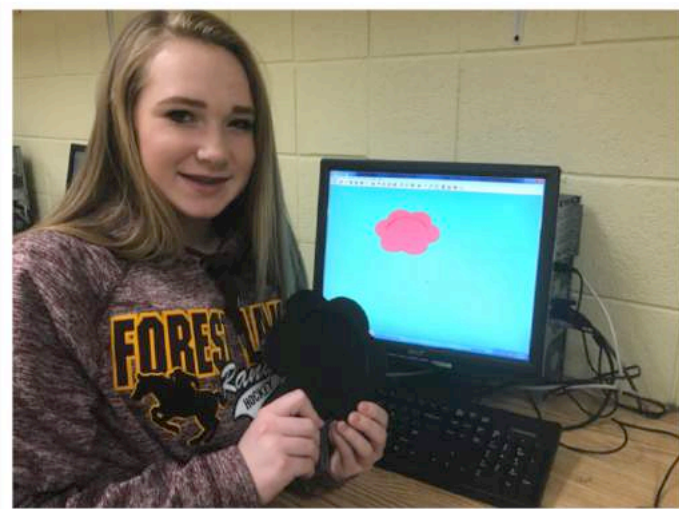
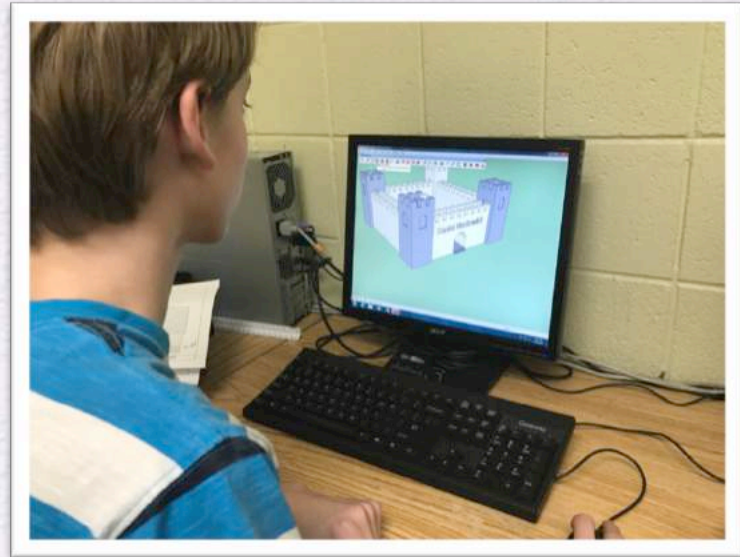
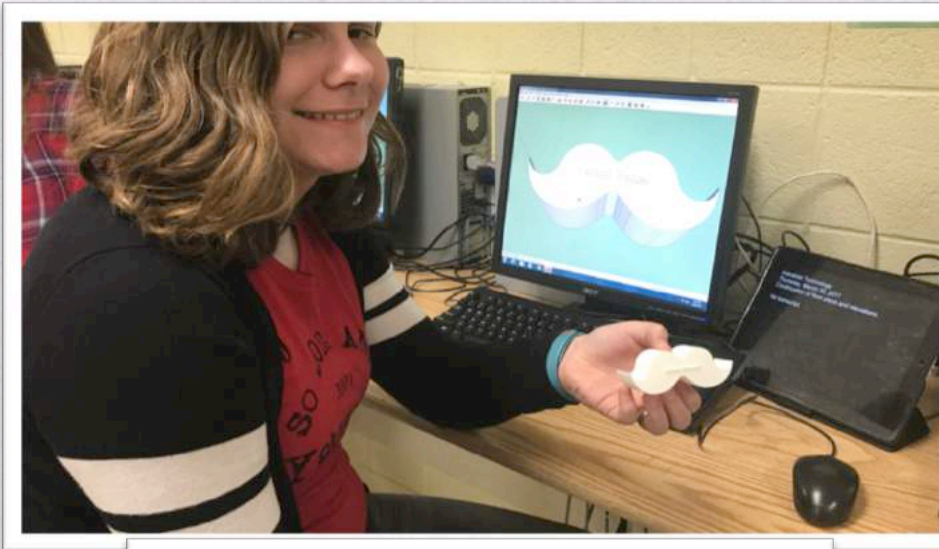
# Makerspace – Innovation Stations



# 3D Printing-Design and Build Project

- I have seen firsthand the excitement and enthusiasm that 3D printing brings to a drafting lab. Students have been using 3D software, AutoCAD and Google Sketchup, to design 3D Models. Now, with the help of TEFFLA, we have a Makergear M2 printer and students can see their finished product take shape. These opportunities are excellent for students while building their 21<sup>st</sup> century skills.

# 3D Printing-Design and Build Project



*“Thanks for this excellent opportunity.”*

*Phil Sundblad*

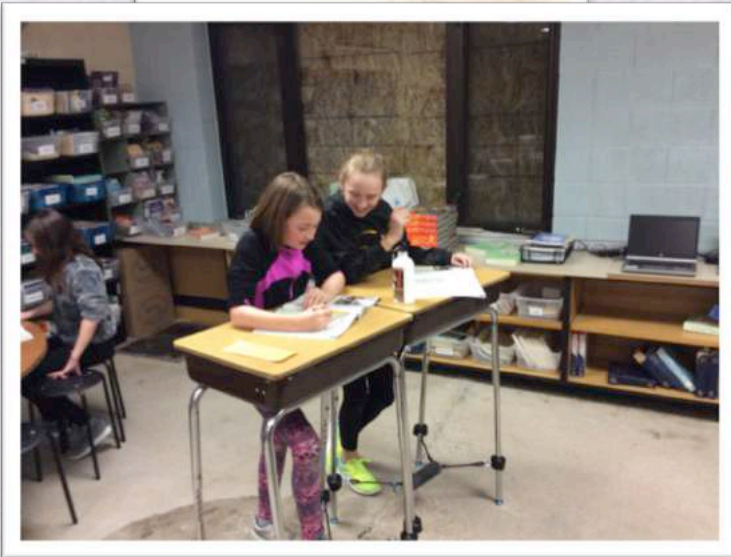
# FLE Standing Desks/ Workstations

- The teachers and students at Forest Lake Elementary would like to be grateful to **TEFFLA** for providing funds to purchase standing desk conversion kits for use in our classrooms this year.
- *“Thank you so much for the Teffla Grant. We are putting the funds to use EVERYDAY, learning new exciting things”*

# FLE Standing Desks/ Workstations

- 5<sup>th</sup> Grade student: “I love to stand and bounce my foot while learning math. It helps me remember my math.”
- 4<sup>th</sup> Grade student: “I have lots of energy and like to stand at the desk to finish my work.”
- Standing desk workstations have been found to increase listening skills, focus and concentration on school work.

# FLE Standing Desks/ Workstations



4<sup>th</sup> Grade Teacher: “It is awesome that when kids know that they need to move in order to stay focused, they have a place to go.”



# IGDI Progress Monitoring

- With the purchase of 5 iPad minis we were able to electronically assess students using the myIGDI's app.
- The assessors noticed an increase in student engagement as compared to when giving the assessment in a physical format. There was an increase in speed of the administration of the assessment.
- Teachers were able to implement interventions, progress monitor students, and chart the growth or lack of due to the effectiveness of interventions.

# IGDI Progress Monitoring



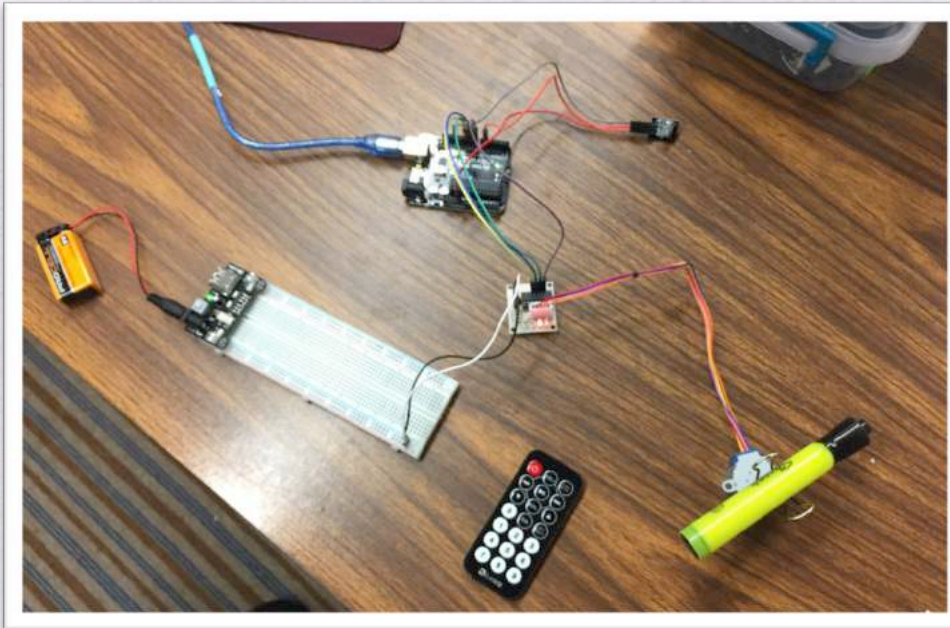
# Engineering for Everyone

- The FLAHS Media & Technology Support Team (Tech Team) was responsible for helping to write the grant, reviewing materials for purchase, and for developing an understanding of how the materials work.
- Tech Team members hosted a maker fair open house to demonstrate some of the materials and assist their peers in hands-on activities
- Program to expand next year

# Engineering for Everyone

- 17-18 Tech Team will “actively seek more ways of outreach, like Maker Nights or creating an informal club bringing students together to share their experiences.”
- “... TEFFLA made it possible for students to experiment with concepts of engineering, electronics, electricity and design. The opportunity to explore without boundaries is very rewarding for students, and many are learning about the world of STEM in a whole new way.”

# Engineering for Everyone



“Arduinos are computer board microcontrollers that allow for the manipulation of interactive sensors and motors that can control objects in the physical world. Arduinos are programmed using the ‘C’ programming language.”



Students worked to make increasingly complex systems that operate display boards, activate and control motors, and utilize sensors to gather input.

# Engineering for Everyone



# Public Acknowledgement of Positive Performances

- Columbus Elementary School is recognizing and celebrating students and staff who exhibit character traits that support a positive school environment.
- Students who have demonstrated positive behaviors and character traits are highlighted weekly.
- Due to ongoing construction, the technology could not be connected this year, but is part of the ongoing construction plan.

# Public Acknowledgement of Positive Performances



**STUDENT ACHIEVEMENT**



ing for purchase of this television is thanks to TEFFLA Grant



# Student Created Inservice Video Project

- Students at a variety of levels created videos to advocate for accommodations that make mainstream classes more accessible.
- School Board Presentation
- Fox 9 News
- School press release
- More videos, photos and results coming soon.

# Student Created Inservice Video Project

- 6<sup>th</sup> grade student: *"I liked being able to tell my teachers many different things about me. It will help them to know what I need to help me and for them to know more about me."*
- 9<sup>th</sup> grade student: *"It was a good experience and I learned a lot about my accommodations and how to advocate for myself better."*
- 11<sup>th</sup> grade student: *" I liked being able to choose how I put everything together. The video shows me and I can tell people about what I need without being afraid. I think my video will make a difference, because then my teachers will already have met me and know what I need in advance."*

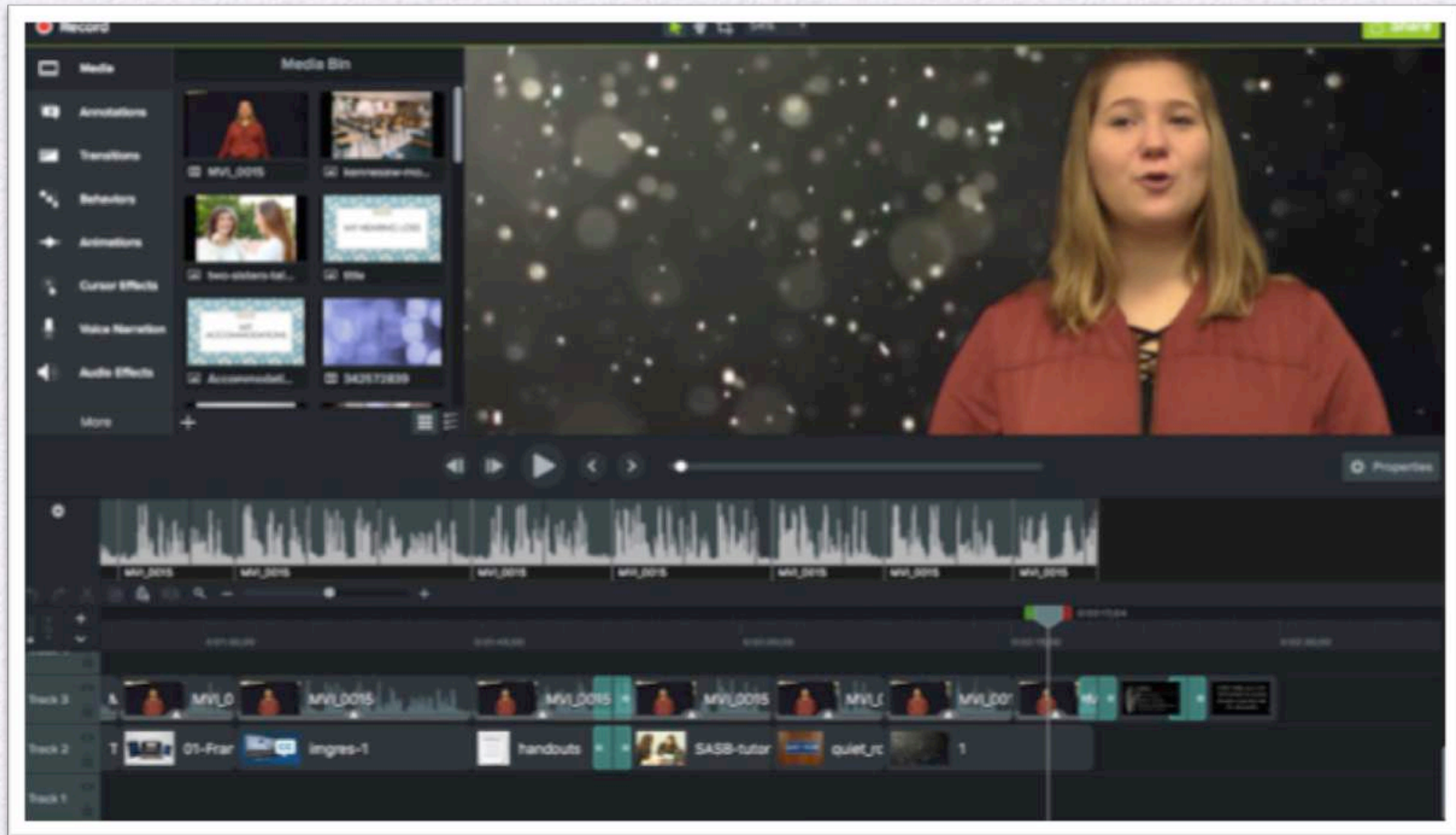
# Student Created Inservice Video Project

## TEFFLA Grant - Student Created In-Service Video Project

### Goals:

1. Create a video that gives teachers, parents and support staff in-service training about the student's hearing loss and educational needs
2. Enhance student's awareness of their own hearing loss and accommodations that help them become more successful in the classroom
3. Increase student self-advocacy skills
4. Increase technology skills with students
5. Gain better access to academic content in the classroom & improve learning

# Student Created Inservice Video Project



# Sensory Room

- “The sensory room helps develop student’s individual senses through movement, tactile, audio and/ or smell. The room has helped students de-escalate when over stimulated, reduce anxiety and deal with regulating so they can return to the classroom more relaxed and ready to focus.”
- Times article and district press release
- “We have definitely seen improved behaviors, although it has been a short amount of time.”

# Sensory Room

- 8th grade student: “The swing relaxes me.”
- 7th grade student: “I like watching the fish move up and down.”
- 9th grade student: “Bouncing on the yoga ball, helps my body feel better.”



# Be an Upstander

Goal: Make People Feel WELCOME and SAFE at our school!



# Be an Upstander

- **97** student leaders were trained to lead Advisory presentations.
- These same leaders volunteered time to pass out UPSTANDER buttons, and sweet rolls and solicit pledges before school and during lunches.
- We had a core group of Olivia Gadberry, Clara Olson and (Cheryl Smoczyk -faculty advisor) who planned and led the campaign, but we got 3 student leaders to speak in our campaign video: Txuqi Lee, Andrew Delgado and Sharon Ngassa. Our videographer, Anna Navratil, also volunteered her time.
- Clara & Olivia presented at a High School Staff meeting, and at Equity Leaders, Student Council, NHS, GSA and led the student assemblies, as well as spoke to Rotary Club about our efforts in February.
- TEFFLA funding provided FREE tshirts for all student leaders, however, as advised by Dr. Massey, we opted to have interested staff purchase their own tshirts if they wanted. Some additional students also ordered and paid for their own shirts. ALL STUDENTS also got a FREE button when they submitted their pledge. This funding also came from TEFFLA.

527 pledges were submitted by student body and 147 staff and student leaders pledged as



# Be an Upstander

- Action Taken:
  - TEFFLA funding supplied T-shirts for student leaders, buttons for all who took the pledge, banner for all to sign.
  - Campaign began with mini presentations to student leadership groups. Upstanders meetings began in December
  - Social media (Twitter & Facebook)  
@FLHSUpstanders  
<https://www.facebook.com/FLHSUpstanders/>
  - Website: <http://be-an-upstander.my-free.website/>

# Be an Upstander



# Pop-Up Library

- Information Coming August 2017

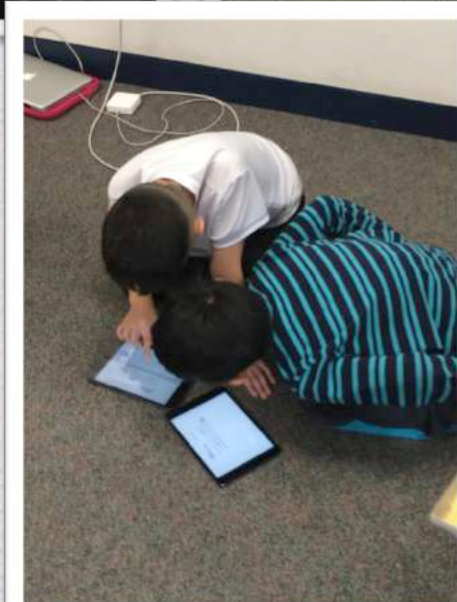
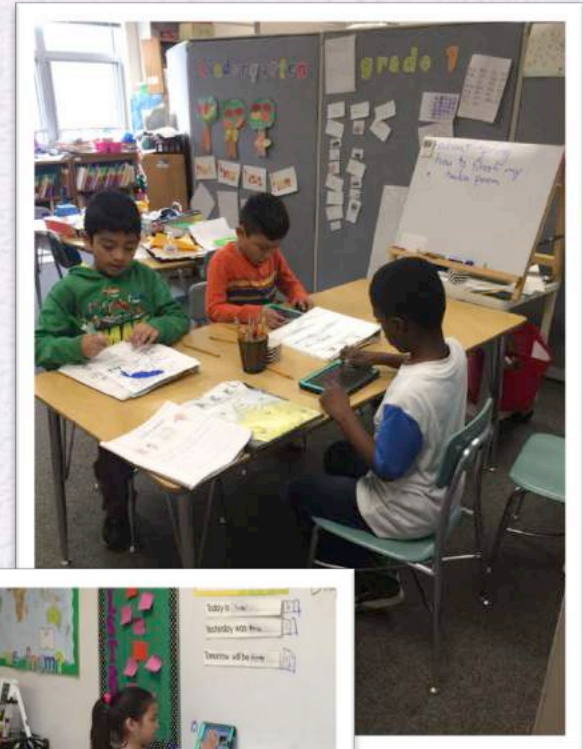
# Updating Technology for the EL Department

- The TEFFLA Grant provided the opportunity for a growing demographic to utilize updated technology relevant to their classroom instruction and English language acquisition across FLAS. This helps provide more equitable instruction across content areas for EL students.
- 5 mini iPads for Forest View Elementary (FVE), 3 Chromebooks for Forest Lake Elementary (FLE), and one mini iPad for Forest Lake Area High School (FLAHS)

# Updating Technology for the EL Department

- EL Teacher: “This is a great way for students to stay in the classroom, but receive activities and instruction at their level. I think it provides the teacher some relief in knowing their new students have something to work on that is specific to language learning while the other students in the class are working on something else.”

# Updating Technology for the EL Department



# Science Success for Everyone

- The generous TEFLA grant paid for a number of pieces of equipment and software.
  - Digital video camera and stand; HP Computer
  - Software: Camtasia Studio, Articulate Storyline
- Slow but sure progress; work will continue over the summer, with the hope of having remediation units ready at the start of the school year
- All work will be shared between both jr. high schools
- The first of many videos to come.

# School Forest Camera Curriculum

## Linwood Elementary

Goal: Develop a Trail Camera Curriculum that embeds the MN Science standards while utilizing the Linwood School Forest

Process:

1. Half day grade level meetings with Jennifer Braido
2. Review, Comment and Edits
3. Final Inquires presented to staff
4. Published on Gmail Server as well as Hard Copies for Reference
5. Final Product will be available by the end of May



# School Forest Camera Curriculum

## Linwood Elementary

- K – Back Yard Bird Bonanza
- 1st - Happy Habitats
- 2nd - Animals Through the Seasons
- 3rd - By the Light of the Silvery Moon
- 4th - Fed by Design
- 5th - Behavior Problems
- 6<sup>th</sup> – That’s a Novel Idea