Element 1b

- Applying new learning from workshops: Minecraft Units from Spring Convergence / Breakout.Edu - Scaling STEM
- Applying new learning from workshops: 3D printing Units / 1st and 4th - NCTIES
- Consistently attending SIP / MTAC
- Seeking Outside Opportunities to grow professionally: Scaling STEM / Convergence / Idea Crucible / 4Cs Grant /NCTIES
- Providing School-wide Professional Dev: Website Building / Minecraft Tutorials
- Initiating Proposals Relating to SIP goals: 4Cs grant proposal linked to several SIP goals including real world connections
- Volunteering for additional duties: Magnet Fair(s) / Tech Night / Tech Team / Morning Announcements / Website Building / Twitter Account / Gathering Photos / Video Clips and promotions /
- Collaborating w/ Leadership: Media Hub / Interview Process for Tech Specialist / Magnet Application / Magnet Presentation / Representing Brentwood at NCTIES / 4C/ Idea Crucible / Scaling STEM / Hour of Code

Element 1c

- Collaborating w/ Staff Members: STEM team collaboration (Whitney Hardee) ex. Hour Of Code / Tech Team (Malone) / 4th Grade Team in Makerspace / MTAC / Benson - Edmodo Lesson / 2nd Grade Matter Unit
- Attending local, state and or national PD: NCTIES / Scaling STEM / Convergence / STEM Coordinators
- Volunteering To Help Peers: National Boards (Smitley) / STEM Expo (Silverthorne) / Tech needs throughout school /
- Promote School-wide initiatives: Hour of Code / Morning Announcements / Engineering Challenge Days / Twitter / Website
- Influence Staff Morale: Curating Twitter feed w/ Photos - Tracking Staff Achievement / Curating Staff/ Student achievement Slide Deck
- Writing Grants: 4Cs / Internet Of Things / Idea Crucible
- Effectively Presenting at local, state or national workshops: NCTIES Student Showcase / Scaling Stem / Convergence

Element 1d

- Participating in PLT team/work: STEM/Magnet team
- Positively Supporting New Initiatives: Google Drive / Hour of Code / Class Dojo /
- Effectively Representing school at county mtgs: Bully Prevention Video / 4C grant meetings (Crossroads) / Convergence
- Monitoring SIP goals: STEM challenges and frequency - staff surveys / staff support
- Attending Training: ESM / PD days / Convergence
- Consistently Collecting Data: Kahoot / Google surveys / Kodable tracking / Code.org progress / Sumdog tracking / Data from Successmaker organized and shared with classroom teachers
- Working with a committee at a county level to support student learning initiatives: WCPSS STEM Coordinators / Meeting with Tech Services to implement Minecraft and 3D printing curriculum initiatives / Working with Grants and Elementary to promote Vision 2020 and 4Cs initiatives

1e.

- Explaining Ethical Issues To Students: Created framework for Internet safety / cyber - literacy lessons / Supervising Tech Team creating (award winning) anti-bullying video / presentations.
- Coaches Students to respond appropriately to ethical issues: Internet Safety Curriculum / Ethical treatment of peers explored with peer to peer communications in Edmodo and during minecraft lessons.
- Identifying Potential Problems - Suggest positive resolutions: Supplying grade levels with approved links and approved research sites. Seeing issues arise with Edmodo peer to peer communications and enacting proper filters and safeguards. Encouraging Substitute staff to utilize Class Dojo - using positive reinforcement instead of negative consequences - Removing any photos posted of students without photo permission.

Element 2b - to defend:

- Routinely selecting materials that show people in non-stereotypical roles: Coding, Engineering, Robotics, innovators, Inventors - all of different races genders and backgrounds.-Community Lesson (1st) - Community Garden in Urban Underprivileged area
- Including information about other cultures in lessons:
  -Solid as a Rock: Replicating an Artifact / Russian Materials Engineer - 6 weeks (4th)
  - Designing Model Membranes / El Salvador - Bioengineer - 4 weeks (4th)
  -Future Engineers Nasa Challenge - Multicultural Space Station - Boost 3rd/4th
  -Kodable coding units - Multi-cultural Women in Computer Engineering - Boost 1st
  -Robotics unit 30 days: Origins in Czechoslovakia

- Drawing Current events from diverse parts of the world: Daily - Morning Announcements
- Attending Workshops addressing Diversity: NCTIES / Lateral Entry PD : Engaging English Language Learners

2e

- Providing regular updates to families: Twitter Feed / website updates / Class Dojo exchanges
- Attending mtgs w/ families: Theme nights / Tech night / Engineering Night
- Exploring local community for resources to help students: Grants / Partnership w/ NC State
- Parent Communication: Morning Announcements and Twitter via PTA
- Identifying Roadblocks to family/community involvement: SIP surveys - student technology use survey
- Praising Colleagues - via Twitter / to students / at Magnet Faires / Convergence / Idea Crucible
-

5a

- Accurately Recording / Monitoring Progress: See Kodable / Code.org / Kahoot / Survey results
- Identifying own strengths and weaknesses in regard to instruction: Checking in with co-teachers, STEM PLT team, meeting with Mr. Jones, Ms. Benson, Ms. Sharp to improve lessonsand lesson plans
- Adjusting instruction during a lesson based on responses or performance: Minecraft lessons tweaked and simplifies for 3rd and 1st. Adjusting between 4th grade classes during Robotics lesson. Adjusting 2nd grade matter lessons to deepen connections to full grade experiements.
- Asking for feedback: From PLT team, 4th & 2nd grade co-teachers, Specialists
- Clear performance expectations:
- Sharing best practices: Apple TV / apps / Google Drive / Edmodo / Minecraft lessons (Silverthorne/Malone)& many other teachers
- Using student work products to evaluate teaching performance: see photos

5b

- Implementing and reflecting on Practices learned in professional development: implemented 3D printing STEM challenges as shared at NCTIES2016, Day 1 : http://bcs3dprinting.weebly.com/
  Example 2: Lateral Entry PD Meeting with Paul Domenico *pdomenico@wcpss.net*
  Director of Curriculum Enhancement Programs

  - Nov 21st Code.org
  - **2nd Grade First lego league - (used in 3rd grade Boost / 4th STEM lab)**
  - competitions and activities
  - focus on Minecraft (woodard)
  - follow up w/ EIE contact

  Example 3: Minecraft.edu PD Spring Convergence PD / shared with staff / implemented in Boost
- Seeking professional growth opportunities beyond the school to foster own development: ID Tech Training at EMORY (Atlanta) / NC State (java / lesson planning / photoshop / coding / PBIS)- Duke Tip - Natural Math Seminar - Meredith College 11/14/15 - North Carolina school of science and mathematics presentation 11/14/15 - Meredith

  Attended First Lego League competition at Cardinal - gain knowledge and background for 2nd-4th using FLL kits

5c

- Focusing PD on Acquiring information and skill in the most current approaches to teaching and learning: NCTIES, Convergence, Scaling Stem, 4Cs grant collaborations.
- Integrating the most current technology with state standards for classroom instruction and student activities: apple TV (mirroring - sharing student work) / iPad creation apps / 3D printing technologies / Google apps, add-ons and student creation features, including Docs / Slides and Sheets / website development for classroom use (continue to update and change tech lab and boost websites to reflect new lessons)
- Modeling the use of the most current technology as an integral learning tool: Green Screen / Apple TV mirroring / Edmodo classes / Sumdog (Math and typing - aligned with standards) / Embedding Slides and Sheets / Nearpod / Kahoot / iPad creation apps / Hour of Code / Scratch Jr / Scratch / Gamestar Mechanic / animation tools / presentation tools (Haiku/Slides/Prezi) / use of Twitter in classroom / use of Minecraft in classroom (used by Malone / 5th grade team / STEM team)
- Always exploring and researching new and innovative technology whenever feasible: Scratch Jr / Sphero Coding / mirroring / Google apps / 3D printing /

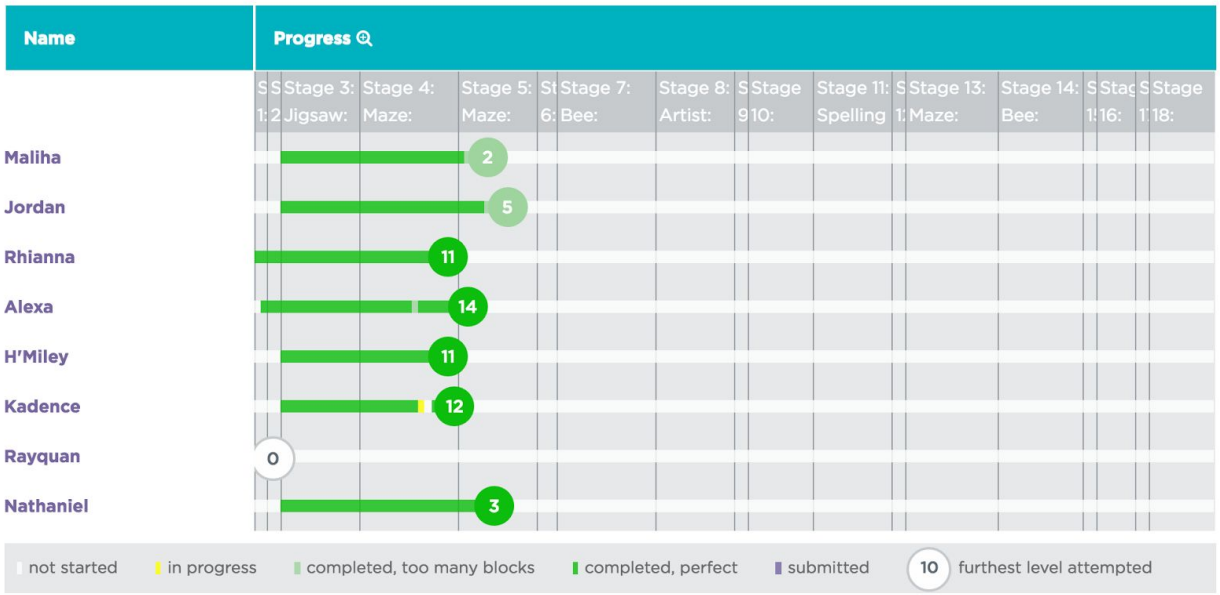
1.OA.1
Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem

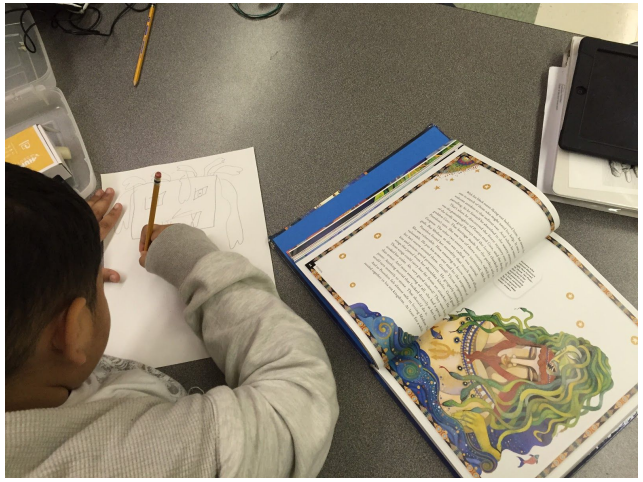
Comparing & Measuring

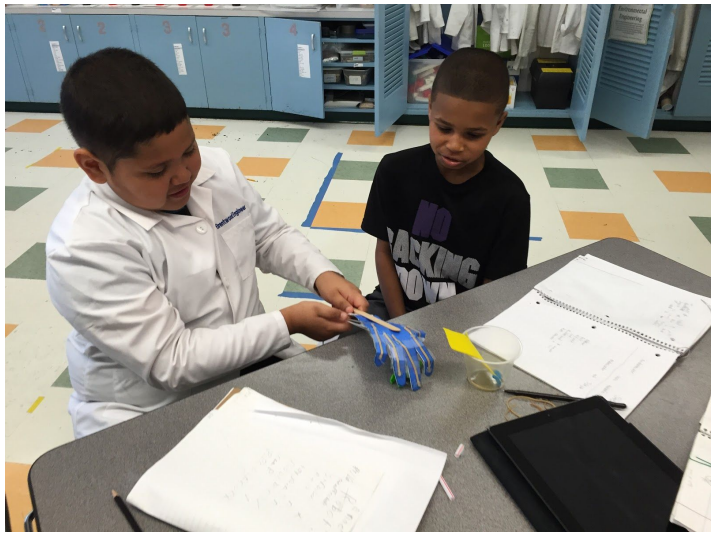
1.SI.1.2
Explain the importance of using beginning and ending points and placing units end to end when measuring.

1.MD.2
Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. *Limit to contexts where the object being measured is spanned by a whole number of length units with no gaps or overlaps*.

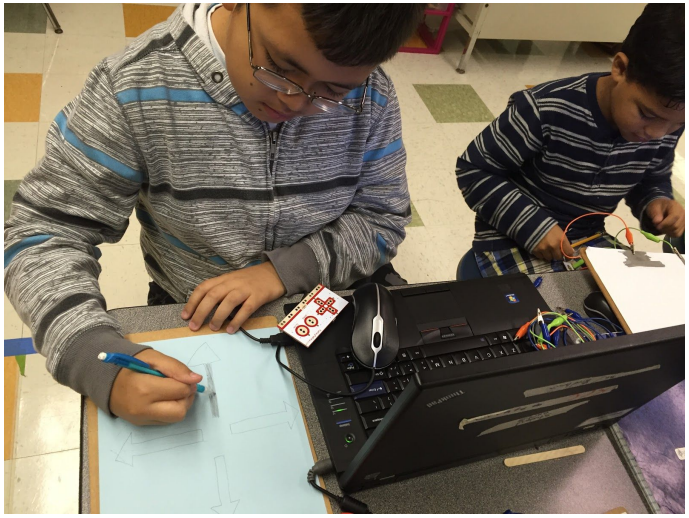
←

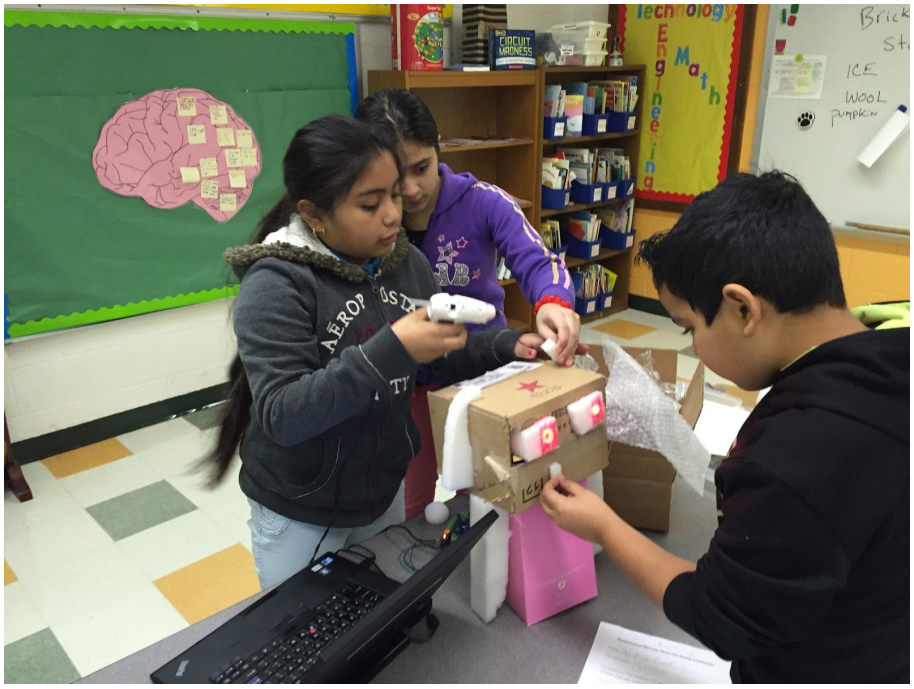

Name
Progress
S 1:
S 2
Stage 3: Jigsaw:
Stage 4: Maze:
Stage 5: Maze:
St 6:
Stage 7: Bee:
Stage 8: Artist:
S 9
Stage 10:
Stage 11: Spelling
S 1
Stage 13: Maze:
Stage 14: Bee:
S 1
Stag 16:
S 1
Stage 18:
Maliha
2
Jordan
5
Rhianna
11
Alexa
14
H'Miley
11
Kadence
12
Rayquan
0
Nathaniel
3
not started
in progress
completed, too many blocks
completed, perfect
submitted
10
furthest level attempted

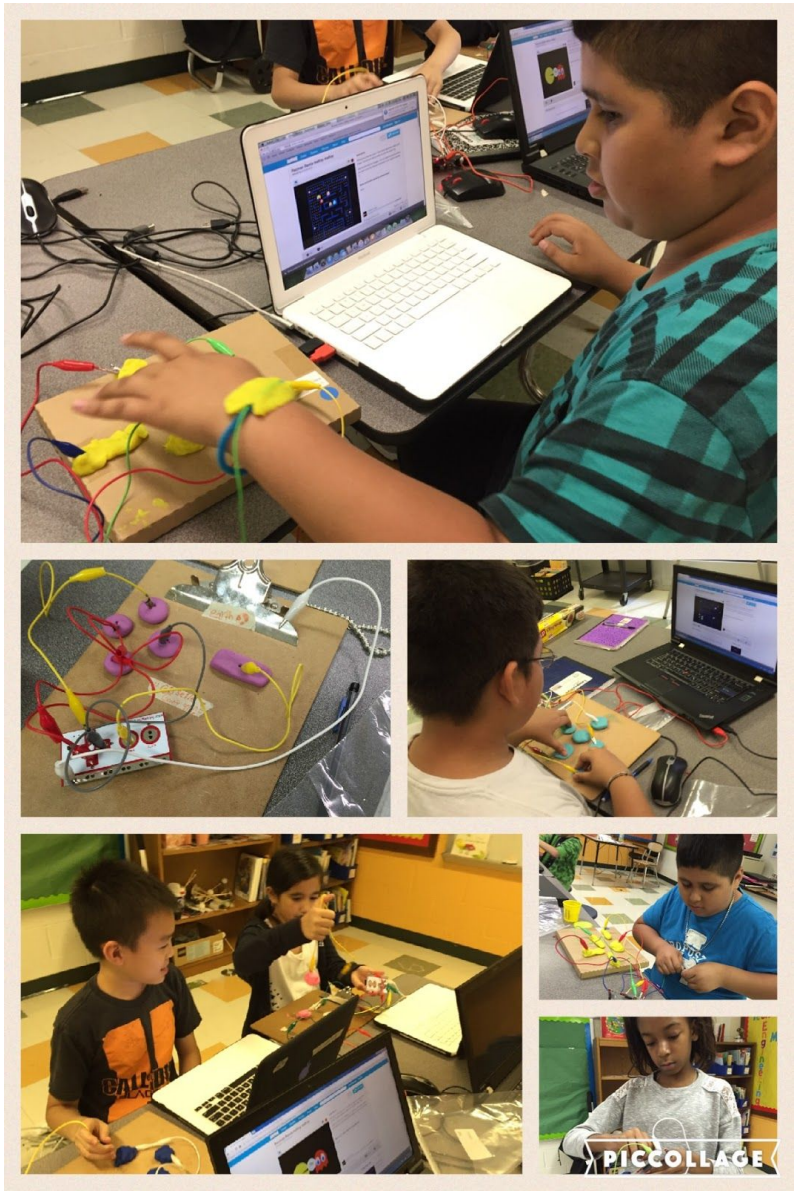





Paper
Rolls




CIRCUIT MADNESS
Math
ICE
WOOL
pumpkin

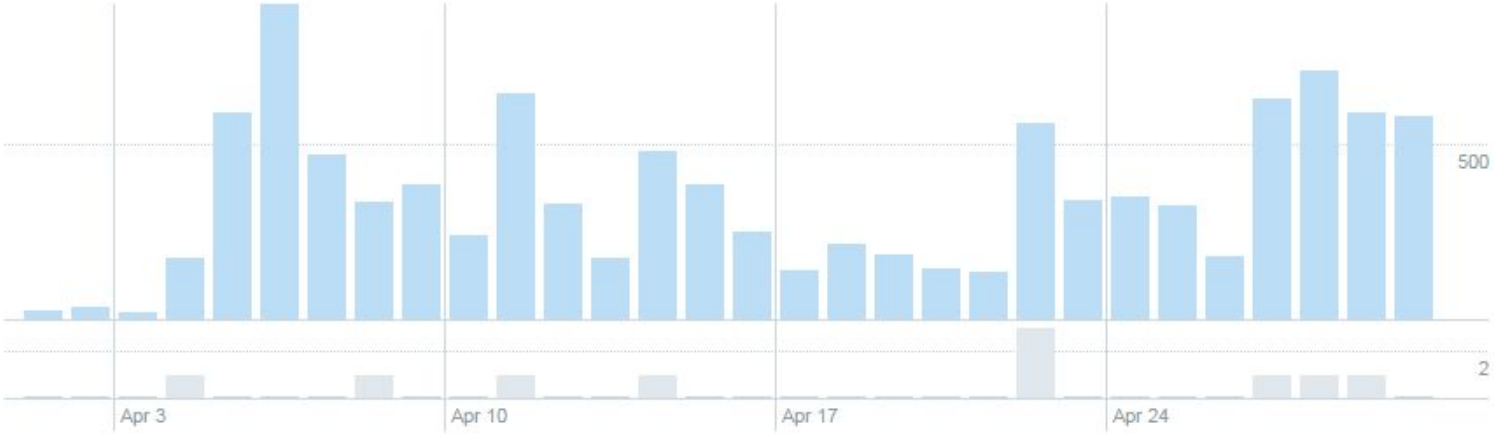

PICCOLLAGE

Your Tweets earned **5.4K impressions** over this **28 day** period

Tweets | Top Tweets | Tweets and replies | Promoted

	Impressions	Engagements	Engagement rate
Brentwood Elementary @BrentwoodMESE · May 31 4th Grade Leaders giving motivational speeches at EOG pep rally. pic.twitter.com/DOkjfqWhwf View Tweet activity	407	41	10.1%
Brentwood Elementary @BrentwoodMESE · May 25 4th Grade STEM Boost showing off 3D scan / 3D printed self portraits! **@WCPSS @STEM_WCPSS @wcpssmagnets** pic.twitter.com/NmwmKGpGXt	773	687	88.9%

Your Tweets earned **9.7K impressions** over this **30 day** period



Tweets | Top Tweets | Tweets and replies | Promoted

	Impressions	Engagements	Engagement rate
Brentwood Elementary @BrentwoodMESE · Apr 4 Students at **#scalingstem** helping us build a city in **@MinecraftEdu @WCPSS @STEM_WCPSS** pic.twitter.com/6LAAn9fGtn View Tweet activity	7,236	180	2.5% Promote
Brentwood Elementary @BrentwoodMESE · Apr 22 Brentwood 5th graders at **#STEMexpo @US2020 @STEM_WCPSS @BrentwoodMESE @wcpssmagnets**	1,111	17	1.5%