



STEM

SAGAMORE HILLS

STEM Goals for 2014-2015

Sagamore Hills Elementary

Summer 2014

1. Publish STEM Logo
2. Review STEM rubric with STEM committee
3. STEM Committee meetings to outline a framework for school-wide STEM activities
4. Begin the process of STEM-ifying the school
5. Finalize STEM design process
6. Decide on which grade level identified teachers will Participate in EiE "Unpacked" Training
7. Begin to Research Business Partners
8. STEM Lab needs to be re-arranged, walls painted
9. Science Lab needs to be re-organized/new supplies ordered.

August 2014

1. STEM Lab and Science Lab completed
2. Post Engineering Design Model Posters in ALL Classrooms and in High-Traffic Areas
3. "STEM-ify" Building (continue based on what is currently in place)
4. Review the STEM Certification Rubric from GaDOE with staff
5. Non-negotiables to Staff-Mrs. Taylor
6. PD on the basics of STEM implementation-pre-planning (Aug. 5th at 1:30)
7. Create/Meet with PTA/Parent STEM committee
8. Continue to Establish Business Partners
9. Create a Framework for Implementation and Use of STEM Journals school-wide
10. Create a Framework for Implementation and Use of LEGOS

Partnerships by STEM-ify Building
- continue with "STEM-ify" Building
- Parental Involvement & STEM Nights (1 per semester)
- Student Competitions
- Review Business Partners and Secure STEM Partners if Needed
- Focus Walks/Checks throughout the Year Specifically STEM Focused

todos
David knows 2 parents

computer

11. PD on STEM Journals Implementation at the end of the month-Hannah M.

September 2014

1. Student STEM Journals & Guided Portfolios-Implementation School Wide
2. PD for Staff on EIE kits and Aligning Integrated Units-Sept. 3rd for STEM Committee and STEM reps from each grade level. Teachers will need full day subs.
3. September 5th-School-Wide STEM Club Day
4. Continue to Establish Business Partners
5. Implementation of EIE Kits Based on GL Pacing (begin in September and continue remainder of academic year)-
6. Continued Individual/Grade Level Coaching on EIE Kits/Any Areas of Need
7. STEM lab/Science Lab Fully Functional
8. Sagamore Purchases other EIE Manuals so that each grade level has 1 kit for every classroom.
9. Begin Sending Home Monthly STEM Task with Kids to Take Place of Math Stars or in Addition to Math Stars

October 2014

1. PD on STEM-Establishing a STEM Culture in Classrooms-Hannah M.
2. STEM buddies instead of Book Buddies Begins
3. Establish STEM Clubs:
 - Odyssey of the Mind-Miller
 - STEM Club-
 - Lego Robotics Club-
 - Garden Club-
 - Will still have Math Club (parents), Academic Bowl (Manzi & Burnes), Reading Bowl (Brown), Science Olympiad (?), etc.
4. Science Lab backpacks for experiments completed and in Science Lab and STEM Lab Assembled by the PTA/Parent STEM Committee

5. Parent STEM Committee Begins Assembling Other EIE Kits
6. STEM mornings? SciFri Fridays?
7. Begin Interaction with Business Partners
8. Grant Writing?

November 2014

1. School-Wide Egg Drop Competition-Week Before T-Giving Break
2. PD-STEM Student Questioning
3. Continue Monthly Interaction with Business Partners

December 2015

1. PD on Successful Teaching in an Integrated Unit
2. Academic Bowl

January 2015

1. Grade Level PD/Coaching on area of need in STEM
2. STEM Fair School-Wide
3. Reading Bowl
4. Math Tournament
5. Geography Bee

February 2015

1. STEM Night-February 5th 6:00-8:00
2. Reviewing Semester 1 PD: Interactive Student STEM Journals and Guided Portfolios
3. Request CTAE Visit and Critique of Program for March 2015

March 2015- April 2015

1. External Representative Critique SES Using STEM Certification Rubric
2. Reviewing Semester 1 PD-STEM Student Questioning
3. Teacher Integrated Unit Planning for 2015-2016-Hannah M.

4. April 2015- Request Dr. Gilda Lyon Pre-Visit

May 2015

1. Dr. Gilda Lyon Pre-Visit
2. Georgia STEM Day Activities-School-Wide

Summer 2015 Submit STEM Certification Application

Fall 2015 STEM Certification Visit

WEBSITES:

www.teachingengineering.org

www.eie.org (engineering is elementary)

www.bie.org (project-based learning)

www.pblproject.com (project-based learning)

www.education.lego.com (LEGOs)

STEM Needs

From Mrs. Taylor:

- Non-negotiables delivered to staff
- STEM Focus Walks/Checks-What will these look like? How often will they take place? List of "look-fors" given to teachers.

From Teachers:

- Framework for Use of Legos- _____ (Develop a framework so that all classes are utilizing all of the legos as often as possible. Possibly present framework to the staff with examples, etc.).
- Science Lab and STEM Lab Coordinators- _____ and _____ (work with the parent rep to catalog supplies, order supplies, organize supplies, and split supplies between the Science Lab and the STEM Lab).
- STEM Lab Backpacks- _____ (work with the parent rep to decide on science/STEM experiments that would be appropriate for each grade level based on standards. Get a supply list to the parent rep so that they can put together the backpacks).
- EIE Coordinator- _____ (keep track of the EIE kits at the school and supplies that need to be re-ordered).
- Standards List- _____ (create a very simple, bulleted list of all of the math/science/technology

standards that can be given to parents and potential business partners so that they can see where they might be able to come in and help with lessons).

- Business Partners- _____ and _____ (construct a letter to accompany the standards list and work with the parent rep to facilitate partnerships).
- STEM Stars Project Manager _____ (give the parent rep a monthly STEM project for students to do at home with their family. Be sure there is something to turn back in so that students can get their STAR on the STEM STARS board- replacing Math Stars).
- STEM Buddies Program _____ (to take place book buddies. Come up with ideas for the change and present to committee and then to the staff).
- STEM Club- _____ (run a monthly after school STEM club).
- Lego Robotics Club- _____ (lead the robotic team after school and in competitions).
- Garden Club- _____ (monthly club related to the garden).
- Science Olympiad- _____ (coordinate and send out information, attend event).
- Weekly Wildcat Update- _____ (email Nancy Shober a weekly STEM update about what we are doing)

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at Sagamore to go in the Wildcat Update that goes out to parents).

STEM Task Force of Parents:

- Painting- _____ (paint the STEM lab, the hallways, and other areas with things like the STEM design process or STEM logo, and also re-name the halls with STEM names).
- STEM Lab/Science Lab Supplies- _____ (work with the teacher rep to catalog supplies, order supplies, organize supplies, and split supplies between the Science Lab and the STEM Lab).
- Science Lab Backpacks- _____ (work with the teacher rep to pick experiments, gather supplies, and make experiment backpacks where a teacher can just come and grab a backpack and all of the supplies for the experiment are there. Updates supplies in backpacks).
- New EIE Kits Coordinator- _____ (works with the teacher EIE coordinator to order supplies for new EIE kits and put the EIE kits together).
- Business Partners- _____ (works with the teacher reps to use the standards to get business partners to come into the school and teach lessons, lead projects, etc.)
- STEM Stars Project Manager- _____ (works with the teacher rep to send home the monthly project. Gathers completed papers, keeps the STEM STARS chart current, and organizes STEM STARS awards pins for Awards Days).

- Garden Club- _____ (monthly club related to garden).
- STEM website- www.sagamore.org (updates the STEM link on the Sagamore site often).
- Grant writing- _____ (seeks out and writes grants for any STEM projects that would benefit Sagamore).

Sagamore site:

STEM link: www.sagamore.org
 Ms. Egan

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