



STEM

Science - Technology - Engineering - Math

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What is STEM?

STEM is an acronym for

Science

Technology

Engineering

Mathematics

STEM 2014-2015

Students in 1st, 3rd-5th grade received STEM every other week, opposite library.

2nd grade received Keyboarding Skills

STEM 2015-2016

K-2nd meets every other week opposite Library

3rd-5th grades meet every week for one period

Research

- **Utilize research materials**
 - Electronic data bases**
 - Library materials**
 - 3rd-5th grade library book circulation with classroom teacher**

Our Goals

- *Foster Curiosity*
- *Cultivate teamwork and cooperation*
- *Build STEM literacy*
- *Increase technological literacy*

Expectations

Students will:

- Develop problem-solving strategies:

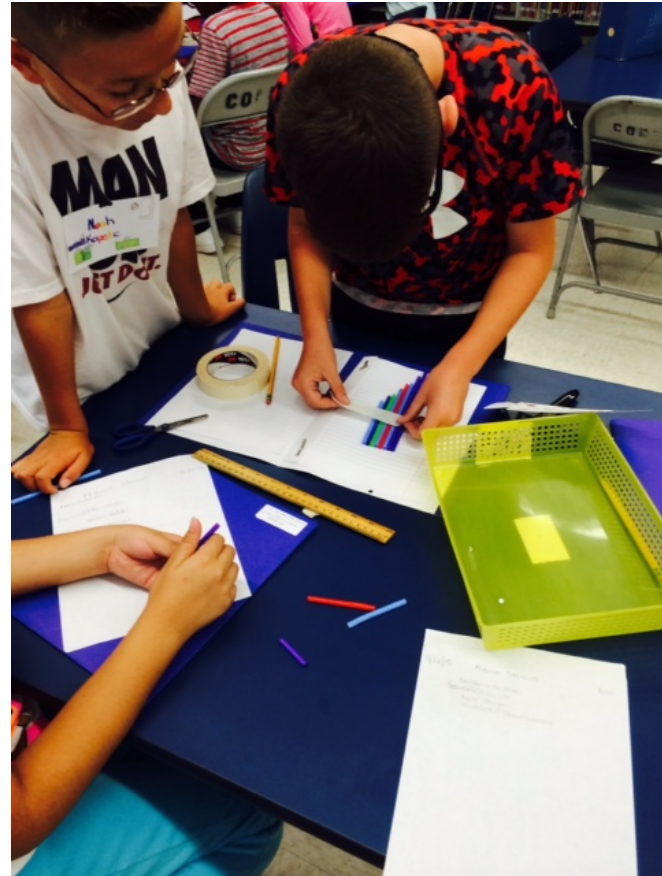
Time Management

Persistence

Team work

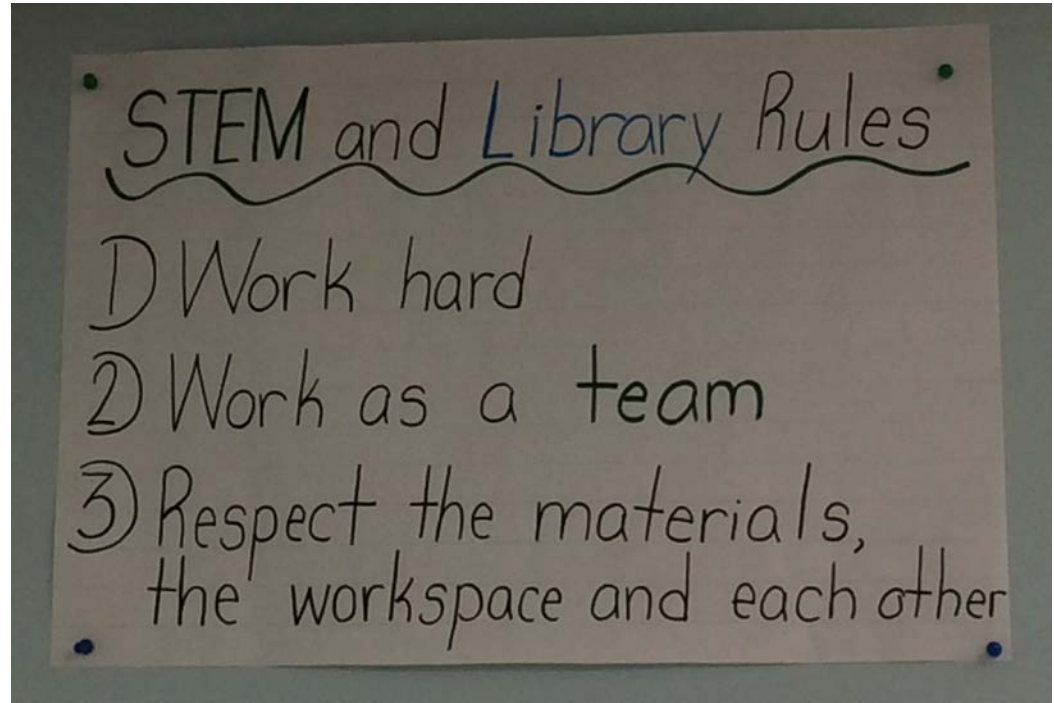


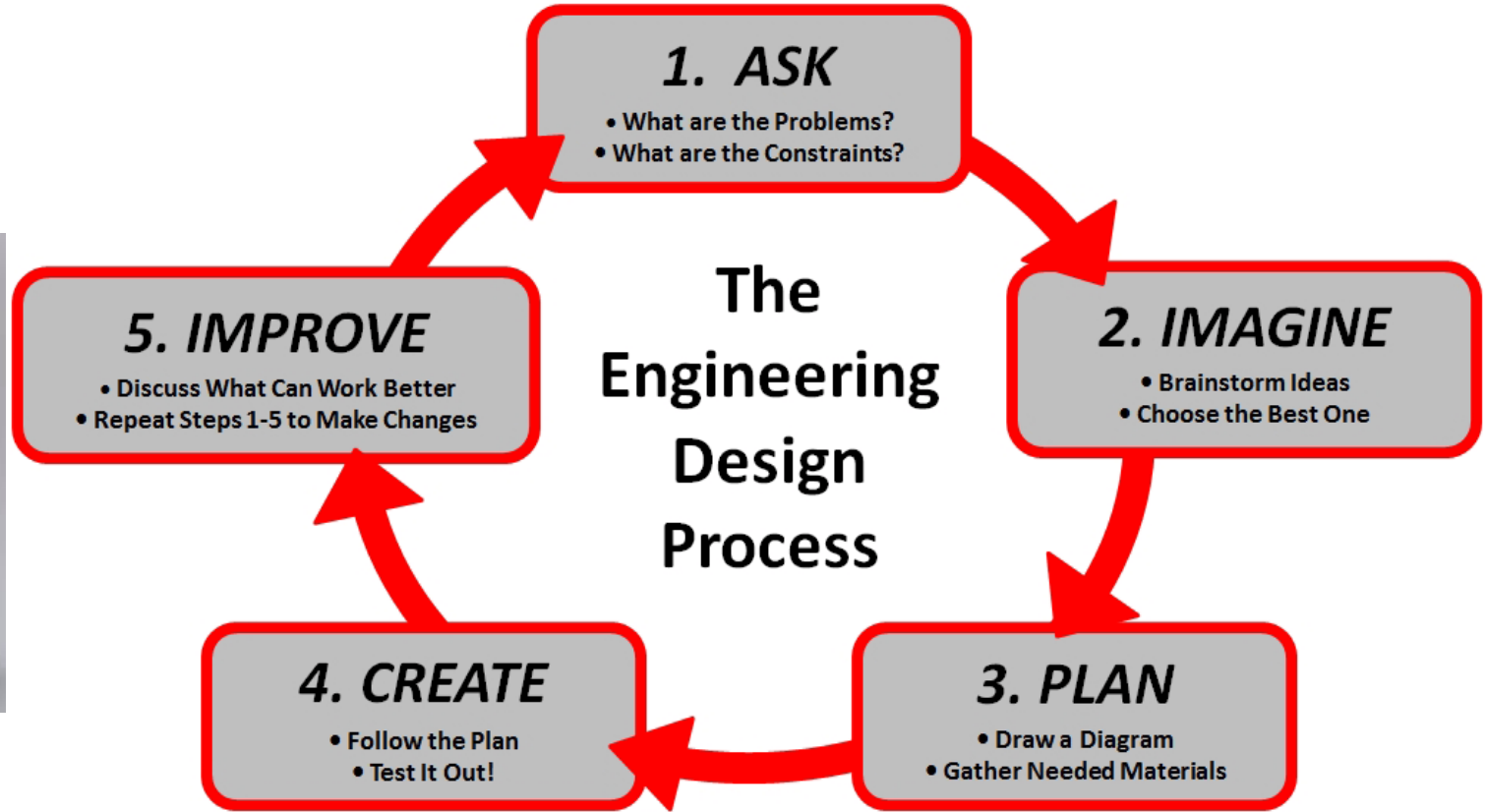
STEM Integration



Rules

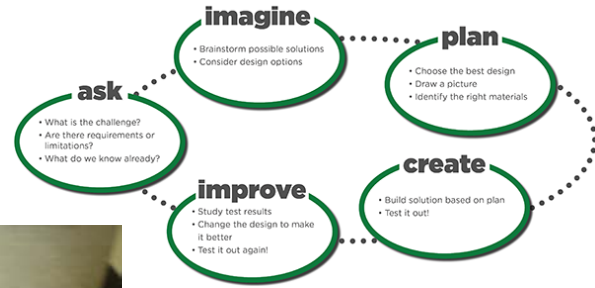
1. Work hard & Try your best
2. Work together
3. Respect each other and our supplies



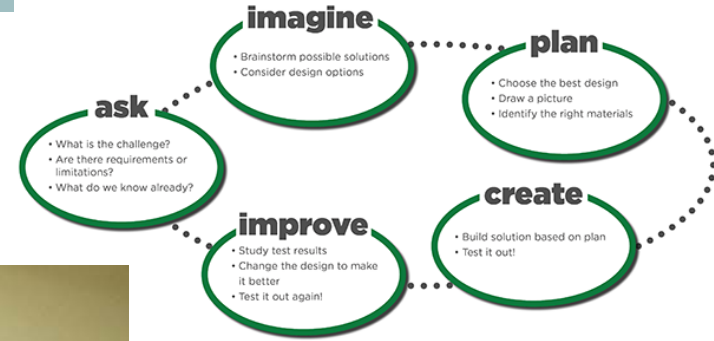


Engineering Design Process as formulated by the Boston Museum of Science (Engineering is Elementary Curriculum)

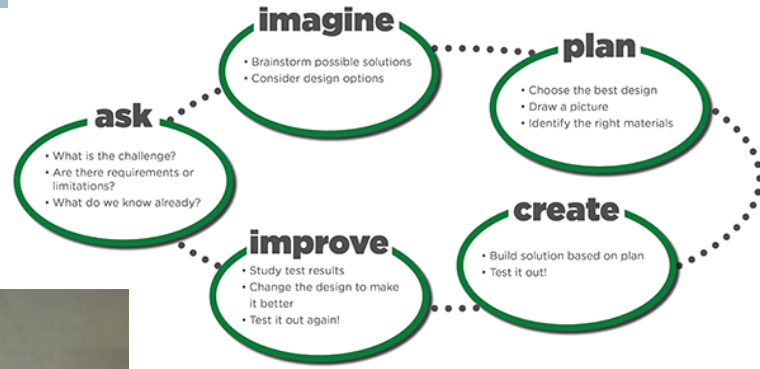
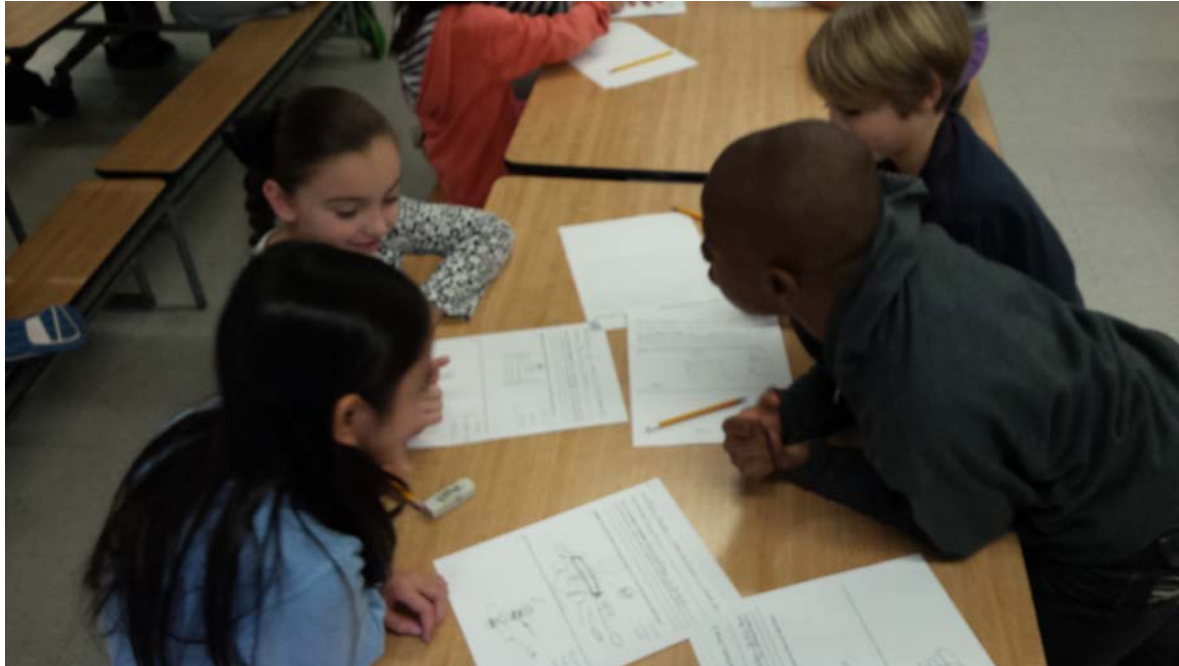
Ask



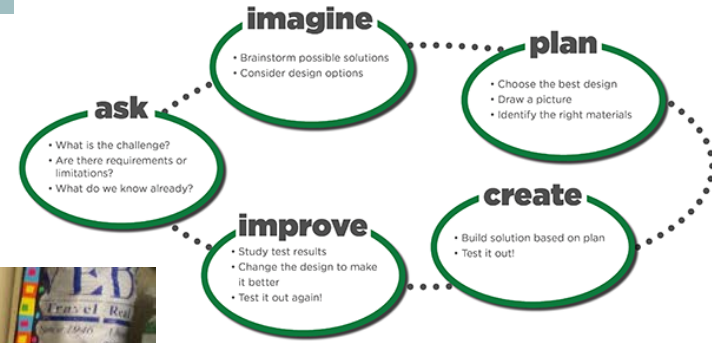
Imagine



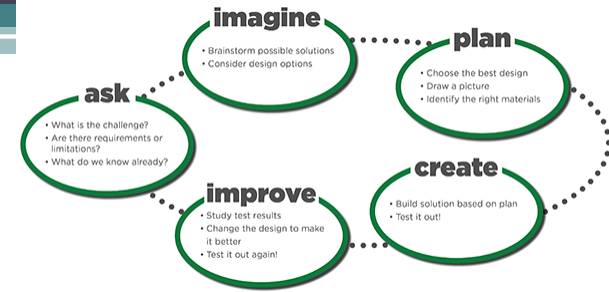
Plan



Create



Improve



Programs & Topics

- Coding-Code.org
- Environmental Science
- Engineering Design Challenges
- Engineering is Elementary Curriculum
- Hot Wheels - Speedometry
- Little Bits Circuitry System
- Research and Presentations
- Robotics

The Importance of STEM Education

- <http://www.foxnews.com/us/2015/06/29/educators-advocates-see-increased-importance-in-us-stem-education/#.VgvbXvt8ilU.gmail>
- <https://www.sciencepioneers.org/parents/why-stem-is-important-to-everyone#.VgvZivni7b4.gmail>
- <https://code.org/stats>
- http://www.eie.org/sites/default/files/executive_summary_2014.pdf
- <http://www.ed.gov/stem>
- <https://www.psychologytoday.com/blog/freedom-learn/201509/declining-student-resilience-serious-problem-colleges>