Intro to STEAM Education

☐ STEAM is integrated problem based learning ☐ Solving real world problems

☐ In STEAM, **your teacher is not your main source of information.**

☐ In STEAM, you are to

- ▫ integrate information you've learned in various classes
- ▫ research, ask each other questions—recognize all of your resources
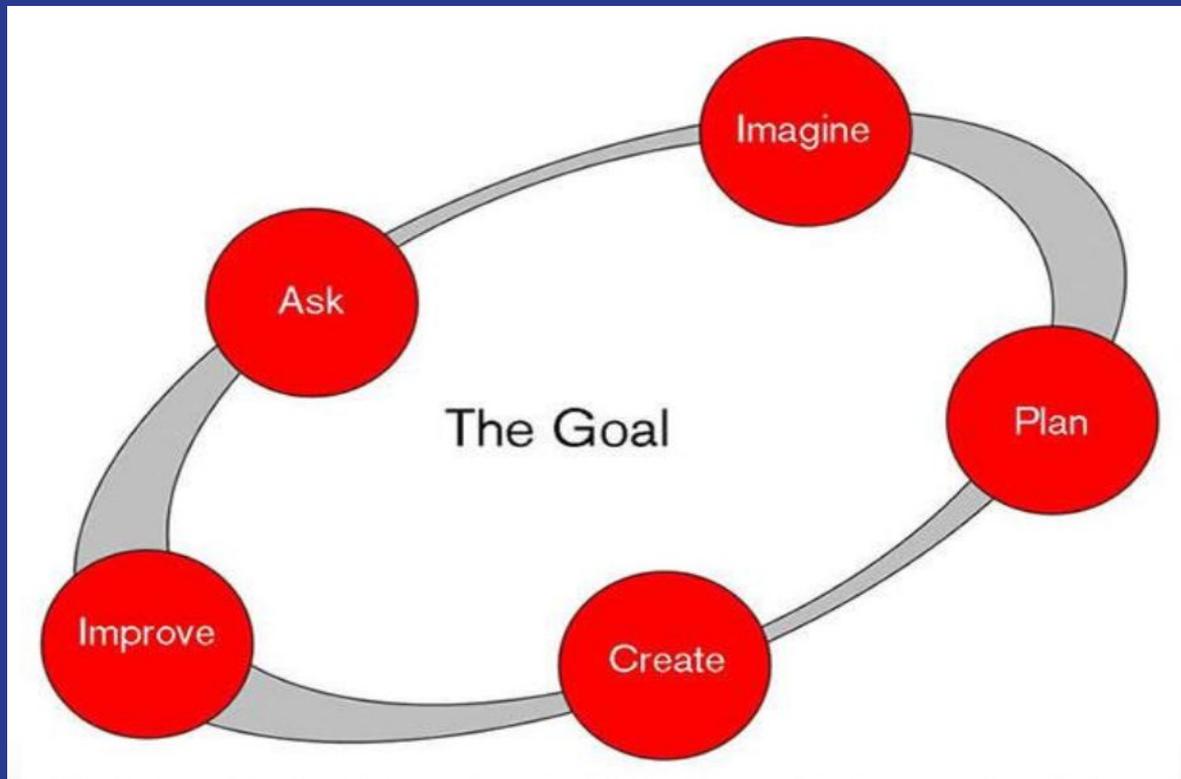
Intro cont'd

You are to

- Read and ask thoughtful questions—**you will lose points if the answer to your question is written on your paper**
- try various strategies--think creatively & critically
- discuss, design, explain, try again, present, &
- most of all, NOT GIVE UP

STEAM Habits of Mind (Expectations)

You are to demonstrate growth in the

☐ Engineering Design Process

☐ 21st Century Skills (Soft Skills):

- ▫ Collaboration

- ▫ Creativity

- ▫ Critical Thinking (try multiple strategies; be able to explain why you chose them, etc)

- ▫ Perseverance

- ▫ Communication

- ▫ Conflict Resolution

Engineering Design Process

STEM/STEAM?

□ What is a STEM Career?

   Click to see a HUGE list:

   https://www.cscc.edu/academics/departments/science/futurescientists/what.shtml

Why Consider a STEM Career?

- http://www.wherestemcantakeyou.co.uk/docs/Why_STEM_Careers.pdf

- https://www.napequity.org/professional-development/counselor-training/stem-careers-students/

- https://study.com/articles/Ten_Reasons_to_Consider_a_Career_in_the_STEM_Fields.html

- https://examinedexistence.com/what-is-stem-and-why-is-it-important/

- https://blogs.gcu.edu/college-of-science-engineering-and-technology/pursue-stem-career/

- https://www.ctelearning.com/best-stem-careers-2018/

- https://www.idtech.com/blog/why-is-stem-important

- https://www.precipart.com/blog/5-reasons-stem-career/

- http://stem.getintoenergy.com/why-a-stem-career/

- https://blogs.cisco.com/ciscoit/why-i-chose-a-stem-science-technology-engineering-and-math-career

- http://stemcareer.com/why-stem/

- https://www.youtube.com/watch?v=3bnMBhO0LnU

- https://careerwise.minnstate.edu/careers/stemcareers

The list goes on and on. . .

Who Cares about Soft Skills? Employers

Articles about the importance of soft skills

- https://www.inc.com/lou-adler/hiring-guide-soft-skills.html

- http://workforcesolutions.stlcc.edu/2013/time-soft-skill-deficiencies-college-graduates/

- https://www.goskills.com/Soft-Skills/Articles/Skills-gap

- https://www.shrm.org/hr-today/news/hr-magazine/0416/Pages/HRs-Hard-Challenge-When-Employees-Lack-Soft-Skills.aspx

- https://www.fastcompany.com/3059940/these-are-the-biggest-skills-that-new-graduates-lack

- https://www.fastcompany.com/3059940/these-are-the-biggest-skills-that-new-graduates-lack

- https://www.dailymail.co.uk/wires/pa/article-2909129/Many-workers-lack-soft-skills.html

- https://www.monster.com/career-advice/article/soft-skills-you-need

- https://www.monster.com/career-advice/article/soft-skills-you-need

- https://www.fool.com/investing/general/2013/12/07/college-graduates-suffer-from-a-lack-of-soft-skill.aspx

- https://www.amle.org/BrowsebyTopic/WhatsNew/WNDet/TabId/270/ArtMID/888/ArticleID/585/Soft-Skills-Preparing-Kids-for-Life-After-School.aspx

The list goes on and on. . .

Thank you for listening!