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
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://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://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.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

The list goes on and on. . .
Thank you for listening!