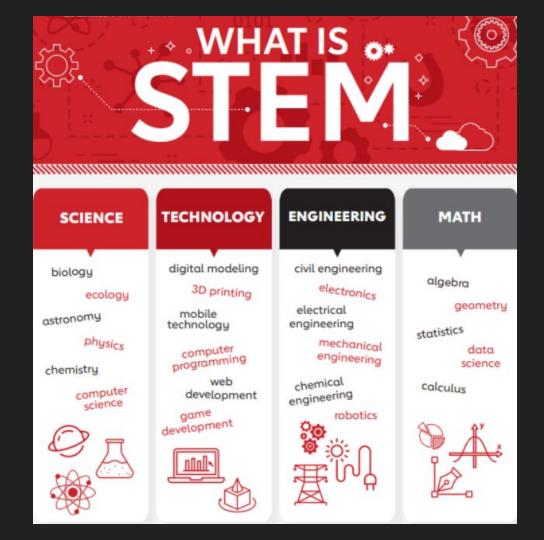
# STEM Curriculum Mrs. Wirth



#### Why STEM?

• STEM education creates critical thinkers, increases science literacy, and enables the next generation of innovators.

#### How Do We Spend Our Time?

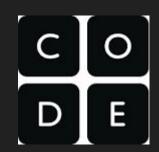
 STEM activities involve hands-on learning and putting our problem solving skills and creativity to the test.
 LEGO Education curriculum is a school favorite! Grades PreK-8.

#### Science

- Align with current classroom standards to enhance the overall learning experience
  - Example: Make and play with oobleck to complement 2nd grade lessons on matter

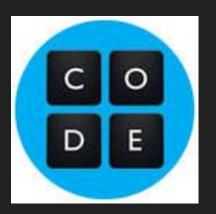
#### **Computer Science**

- Computer Science through Code.org advances problem solving skills, persistence, creativity, collaboration, and community.
  - CS Fundamentals for grades K-5
    CS Discoveries for grades 6-8



### Technology











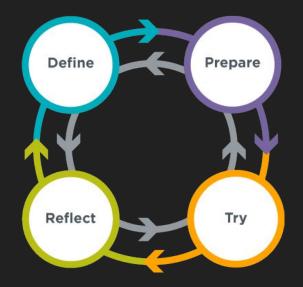
Google Applied Digital Skills

### Technology

- Students build their confidence in creating and analyzing **Docs, Spreadsheets, Slides**, managing files & developing professional email composure in Grades 4-8
- Digital Citizenship & Digital Etiquette
- Keyboarding with TypingPal

#### Engineering

• Challenges, challenges, and more challenges!



### **Engineering & The Problem Solving Process**

#### • Define

- What problem are you trying to solve?
- What are your constraints?
- What does success look like?

#### • Prepare

- Brainstorm / research possible solutions
- Compare pros and cons
- Make a plan

#### • Try

- Put your plan into action
- Reflect
  - How do your results compare to the goals you set while defining the problem?
  - What can you learn from this or do better next time?
  - What new problems have you discovered?



#### Math

- Incorporating understanding and basic use of rulers and units of measurement for lower elementary
- Reinforcing classroom lessons as needed
- Creating and interpreting charts and graphs
- NextGen Personal Finance middle school unit

## **QUESTIONS?**



