



# Today's Agenda 10-28-19: Science / Math

**1. (BW) - Read Non-Fiction Science Book and Take 3  
Note in your Science Journal - (7-10 min.)**

**2. Index Card Challenge LEVEL III - (30 min.) - PBL**

***a. MUST HAVE A SIGN-OFF BEFORE CONSTRUCTING PROTOTYPE***

***b. Partner, Group, or Independent***

**3. Closure - Learning Objectives - (5 min.)**

**\*Please don't forget! Study Engineering Design**

**Process - Foldable - **Assessment Friday****



# Learning Objectives: Science/Math

1. **Science** - SWAT: Design the index card tower solution given scientific challenge.
2. **Math** - SWAT: Interpret angles given an engineering design challenge and a protractor.

## **WHY?**

It's important to be able to design AND apply the engineering design process, *because you may have to help build a sound structure, (e.g., garage or mini-barn).*

## **I CAN...**

Plan a solution, build a prototype, and test the prototype using the engineering design process and mathematical angles.



# Vocabulary:

- 1. CONSTRAINT: - A restriction on the degree of freedom one has in providing a solution to problem or challenge.**
- 2. TRADE-OFF: - Sacrificing one asset to gain another that is considered equally valuable or useful.**



## **Closure:**

- 1. What did we learn today?**
- 2. How does our index card challenge transfer to real-world applications?**
- 3. What were our learning objectives?**



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