

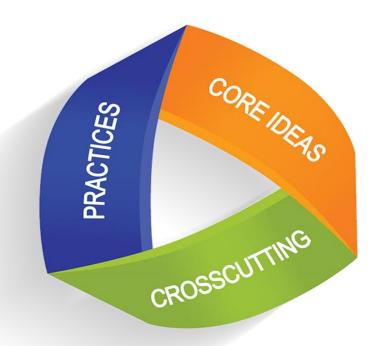
# HMS Science Curriculum

#### Next Generation Science Standards

- Starting with the 2017-18 school year District 181 will fully implement the Next Generation Science Standards (NGSS) K-8.
- The NGSS replaces the old Illinois science standards.
- Illinois was one of the leading states in the development of the standards.
- ▶ NGSS is NOT part of the Common Core State Standards (CCSS)

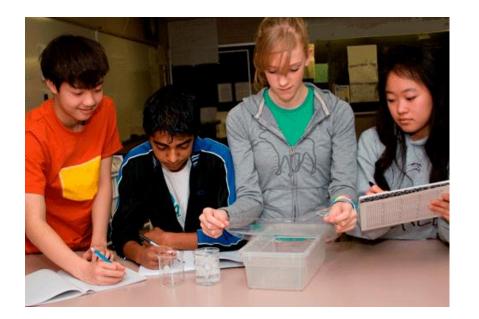
### 1. Three Dimensional Learning

- Scientific and Engineering Practices
- Crosscutting Concepts
- Disciplinary Core Ideas



# 2. Progression of Learning

- Students build on knowledge and skills from each grade
- ▶ There are multiple opportunities to revisit and expand their understanding



# 3. Focus on Explaining and Designing

The goal of instruction is for students to explain real-world phenomena and

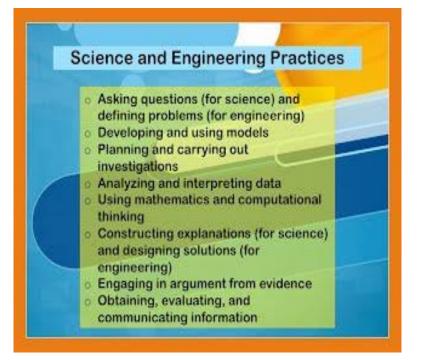
to design solutions to problems



# 4. Integration of Engineering and Science Practices

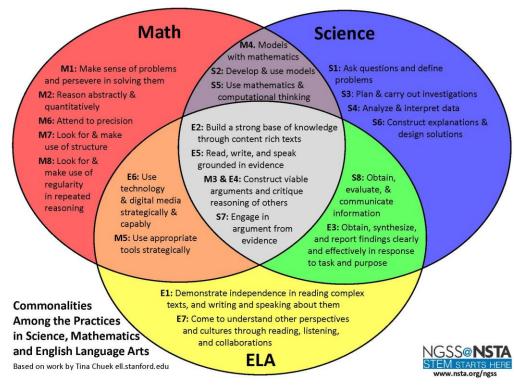
Aspects of engineering and science practices are incorporated into

the NGSS



### 5. Connection to Math and Literacy

▶ There is alignment with the CCSS in both math and ELA



### Some Shifts in Instruction

Less	More
Rote memorization of facts and terms	Facts and terms learned as needed while developing explanations and designing solutions
Questions with only one right answer	Open-ended questions that focus on evidence to generate claims
Reading textbooks	Reading multiple sources
Pre-planned outcomes for labs	Labs with a range of possible outcomes

### D181 Science Curriculum

- ▶ The entire science curriculum is available on the District website at:
- http://www.d181.org/data/files/gallery/ContentGallery/CCSD 181 BOE A pproved Science Curriculum .pdf

# **QUESTIONS?**

