

“I love PBL because it’s like a secret. There’s so much learning but you don’t realize it. The teachers help us but students do most of the thinking. Sometimes, we think so much that our heads hurt .”

— Madison, 4th grader, Novi, Michigan, 2019



Agenda
STEM Cohort PBL Lab Days
November 19-21, 2019

Big Ideas:

- Teaching is a complex process and no one has it nailed.
- We are smarter together.
- We can always get better for our kids.

Guiding Questions for our group:

- How can my classroom become a place where students are doing the reading, writing, thinking and problem solving?
- How can effective implementation of the NGSS Science and Engineering Practices and the Standards for Math Practice help my students become better problem-solvers?
- How can we utilize the science and engineering practices and the standards for math practice to create integrated math/science STEM lessons?
- How can my classroom answer the questions, “Where does this live in the world?”, and “Who could be an audience other than the teacher?”
- How can this group and the coaching cycle help me to get smarter about STEM?

Teaching Targets for the year:

- I can write learning targets for my students and intentionally plan for students to reflect on how they are getting smarter each day.
- I can intentionally plan lessons that highlight the NGSS Science Practices and the Standards of Math Practices.
- I can intentionally plan lessons using the 5E’s and/or , 5 Promises of Math Class, and/or Planning for Thinking, that allow students to do the work.
- I can ask myself planning questions to better align my practice with my beliefs.
- I can engage all students in STEM experiences that foster higher level thinking.
- I can design and implement Project Based Learning experiences in my classroom.
- I can create a classroom where students are doing the work.