

Elementary School Guide to Implementing STEM Standards of Practice

How to Begin a STEM Unit or Lesson

1. **Start with the content** (e.g. Science, Technology, Engineering, Mathematics, Social Studies, Fine Arts, Library Media, Physical Education...).
2. **Enduring Understanding:** Identify a Real World Problem
3. **Essential Questions:** Begin to ask questions that would explore the problem and eventually solve the problem.
4. **Transdisciplinary Connections.** Questions, issues, problems or challenges to real world connections between Science, Technology, Engineering, Mathematics, and other disciplines.
5. **STEM Standards of Practice:** Engage in meaningful, purposeful and relevant STEM activities using the Stem Standards of Practice Frameworks, student skills and knowledge indicators, instructional examples, resources, and glossary.

STEM proficient students will be able to apply all seven Standards of Practice when demonstrating how to answer complex questions, to investigate global issues, and to develop solutions for challenges and real world problems

