What is STEM?
- Boundaries between science, technology, engineering, and math are removed or blurred
- The four disciplines are interdependent
- In blending science, technology, engineering, and math, STEM education seeks to create 21st century learning opportunities and skill development for all students

Why STEM in CTE?
- Natural connection between career and college readiness and STEM learning
  - Teachers often already teach in a way that facilitates STEM learning!
  - Professional Development opportunities in existence
    - Math in CTE Trainings
    - IACTE Conference
    - New/Newer Teacher Workshops
- Advisory committees already in place
- Career Centers serve the community

What does a STEM Classroom look like?

### Teachers
- Facilitator rather than a lecturer
- Guide students through real-world problems
- Interdisciplinary Lessons

### Students
- Work collaboratively
- Solve real-world problems
- Engage in inquiry
- Self-motivated

### Classroom Environment
- Classroom arranged in a way that facilitates group work
- Computers or other instructional technology easily accessible
Levels of STEM
- Initial
- Developing
- Approaching
- Full

Want to become a STEM Certified School?

Now/Fall
- Complete STEM Self-Assessment Rubric

Due by Dec.
- Complete STEM School Certification Application

Spring
- STEM School Certification Visit

April/May
- Announcement of STEM Certified Schools by IDOE

What does the IDOE look for during a STEM School Visit?

- Your application matches what is happening at the school
- Classroom environment
- We ask teachers what they are doing and what STEM means to them
- We ask students what STEM means to them
- We use the rubric that is on the IDOE website

Implementation Resources

**IDOE Website** –
- Implementation Resources
- Self-Assessment Rubric
- Implementation Rubric
- STEM Certification Application
- Lots more!