Action Items for SC STEM December 2012-March 2013

Action Items Related to Business and Industry
1) Determine what businesses in South Central Iowa identify themselves as “STEM businesses.”
2) Using the list of STEM businesses, determine their current level of engagement in K-16 education
   a. Level 1 - time in the classroom
   b. Level 2 – time at the site – visiting, experiencing what the professionals do
   c. Level 3- mentoring single student, group of students (coach for FLL, FTC, Hyperstream, etc)
   d. Level 4 - internships for students at the site; possibly leading to scholarships in that field
   e. Level 5 - serving as a resource for teachers or providing externships for teachers
3) Using this as baseline data, set goals for increasing each area
4) Using the list of STEM businesses and information from workforce development, determine specific skills that are needed for the workplace.

Action Items Related to pk-16 Education
1) Develop a survey/interview protocol to determine the needs of LEAs
   a. Identify and work with vendors to develop programs to meet needs
2) Convene a group of math/science teachers/consultants/experts to identify some of the key math concepts that are associated with each of the scale-up projects.
3) Work with AEA science consultants and DE to link STEM with next generation science standards
4) Develop a methods of teaching engineering course and a course on integrated learning models as a professional development opportunity for in-service and pre-service teachers; combine the training with student camps.