Clemson Elementary STEM-ulating Action Plan

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1. Big Idea: Using the Engineering Design Process, students at Clemson Elementary will create, develop, and engineer new ways to solve problems.
   - State the problem
   - Look for Ideas
   - Develop solutions
   - Share solutions

2. Goal and Strategies
   - Create enthusiasm for and motivate teachers to implement STEM and the Engineering Design Process within current curriculum

3. Strategies
   - Familiarize teachers with relevant STEM vocabulary.
   - Make a copy of the design process available to all teachers and administrators.
   - Offer STEM lesson tips to teachers and students on WCES Morning News.
   - 5th graders will film STEM activities for WCES.
   - Purchase Science Notebooks, Writing about Inquiry by Brian Campbell and Lori Fulton for each grade level.
   - Compile list of STEM websites for teacher web pages and newsletters.

4. Goal
   - Involve PTA and parents in supplying and maintaining STEM materials in science lab.
   Strategies
   - Use current old AIMS kits to develop collections of materials.
   - Write PTA materials grant for STEM supplies.

5. Goal:
   - Use local resources to implement STEM program at CES.
   Strategies:
   - Visit Engineering Expo at Clemson U. (Feb.)
   - Compile list of available local resources for STEM (Tri-County Tech, CU and associated groups, Borg-Warner and other industries, other schools.)
   - Use parents with special skills and knowledge

6. Goal:
   - Write curriculum specifically for STEM education.
   Strategies
   - Familiarize teachers about new national science standards with the engineering component.
   - Form a STEM committee to include teachers, parents, and community members.
   - Apply for national grant money.

7. Goal:
   - Create a school-wide STEM club
   Strategies
• Access TSAweb.org for ideas for student involvement.
• Coordinate with Afterschool Care for ideas.
• Incorporate MadScience and Math Superstars within STEM Club.
• Recognize and celebrate STEM accomplishments.