



STEAM CHECKLIST

DOES YOUR LESSON INCORPORATE:

- The Engineering Design Process?
 - **Ask:** Identify the problem
 - **Imagine:** Conduct research & brainstorm possible solutions
 - **Plan:** Choose the best solution & identify steps, tools, & materials needed
 - **Create:** Create a model, test, & record data
 - **Improve:** Analyze the data, modify the solution, & retest
 - **Share:** Present the problem, solution, and findings to others
 - Multiple (2 or more) Subject Areas?
 - Science, Technology, Engineering, Art, Math
 - Must include **Engineering** and *Science* or *Math*
 - ELA, Math, Science, Social Studies
 - Georgia Standards of Excellence and Key Vocabulary?
 - Content Area(s)
 - Fine Arts (See Fine Arts Standards and Vocabulary)
 - Real-world Application?
 - Allowing students to understand the what, why, and how behind the learning
-

ADDITIONAL ELEMENTS TO CONSIDER:

- The 4 Cs of 21st Century Skills
 - Are students allowed to be **creative**?
 - Are students **critically thinking** to solve a problem?
 - Are students **communicating** their thinking?
 - Are students **collaborating** with others?
- Career Connection
 - Introducing students to a career that applies this concept
- Student Reflection
 - Providing students the opportunity to reflect on the Engineering Design Process
 - What is working? / What is not?
 - How can I improve?