

Design Tool 8.5: Lesson Impact on Students

Directions: After implementing your lesson, determine how well it met STEM criteria. Place a check in the box that best describes where your lesson is at this point with regard to criteria.

STEM Lesson Criteria	Totally There	Some-what	Needs Work
Students understand the problem.			
Students are interested in solving the problem.			
Students are able to generate multiple different ideas for solving the problem.			
Student teamwork behaviors are productive.			
Students demonstrate interest, curiosity, innovation, and creativity.			
Students can identify the part of the engineering design process they are working on.			
Students understand the criteria for success and strive to build prototypes that meet these.			
Different teams use different approaches and/or solutions.			
Teams are able to create devices or systems for solving the problem.			
Teams make decisions for redesign based on results from testing their prototypes.			
Students regard failure as okay and as an important step toward improving the solution.			
Students show persistence as they develop and improve solutions.			
Students use a variety of communication approaches to describe their challenge, results, and recommendations.			
Students have new information about STEM careers and/or life applications.			