

## Design Tool 5.1: STEM Lesson Specifications

*Directions:* Use these specifications to help analyze and select STEM lessons. Remember that each STEM lesson does not need to contain all components. Keep a separate record on each lesson you examine.

**STEM Lesson Name:** \_\_\_\_\_

**Location:** \_\_\_\_\_

Specification	No (0)	Some- what (1)	Yes (2)
1. Does the lesson present a real problem (engineering challenge)?			
2. Will students relate to the problem?			
3. Does the lesson allow for multiple acceptable and creative approaches for successfully solving the problem?			
4. Does the lesson integrate and apply important science and math grade-level content?			
5. Does the lesson clearly use the engineering design process as the approach to solving problems?			
6. Does the lesson use a student-centered, hands-on teaching and learning approach?			
7. Does the lesson lead to the design and development of a model or prototype?			
8. Is the role of technology in the lesson clear to the students?			
9. Does the lesson successfully engage students in purposeful teamwork?			
10. Does the lesson include testing the solution and evaluating the results?			
11. Does the lesson involve students in communicating their design and results?			