**Air Bag Challenge – Process Analysis**

Name

Date Period

You recently completed an airbag engineering challenge. Evaluate the extent to which you engaged in the following 8 science & engineering practices (listed below). For each practice you rated as a 2 or 3, write a 1-2 sentence explanation that justifies the rating. *(For example, if you gave something a 3, why? What specifically did you do in the activity that qualifies as that practice?)*

**3 = a lot 2 = at least a little bit 1= not at all**

\_\_\_\_\_\_\_\_\_ 1. Asking questions *(for science)* and defining problems *(for engineering)*

\_\_\_\_\_\_\_\_\_ 2. Developing and using models

\_\_\_\_\_\_\_\_\_ 3. Planning and carrying out investigations

\_\_\_\_\_\_\_\_\_ 4. Analyzing and interpreting data

\_\_\_\_\_\_\_\_\_ 5. Using mathematics and computational thinking

\_\_\_\_\_\_\_\_\_ 6. Constructing explanations *(for science)* and designing solutions (*for engineering)*

\_\_\_\_\_\_\_\_\_ 7. Engaging in argument from evidence

\_\_\_\_\_\_\_\_\_ 8. Obtaining, evaluating, and communicating information

Engineering is defined as “a systematic and often iterative approach to designing objects, processes, and systems to meet human needs and wants.”1

Explain why this activity was an engineering activity. *(Your answer should be 3-5 complete sentences.)*

1. National Assessment Governing Board. (2010). *Technology and Engineering Literacy Framework for the 2014 National Assessment of Educational Progress.* Available:<http://www.nagb.org/publications/frameworks/prepub_naep_tel_framework_2014.pdf>[April 2011].