

EXPLORATION 1: RUBRIC

Evaluate—Scoring Rubrics:

Content Standards

4 Advanced	3 Proficient	2 Partially Proficient	1 Beginning
Students make a claim, supported by evidence, to support or refute an explanation of the impact of packaging on the environment. Students include the idea: that increases in the size of the human population and per-capita consumption of natural resources affect Earth systems. Students are able to connect solutions to packaging problems to sustainability concepts.	Students make a claim, supported by evidence, to support or refute an explanation of the impact of packaging on the environment. Students include the idea: that increases in the size of the human population and per-capita consumption of natural resources affect Earth systems.	Students make a claim, supported by evidence, to support or refute an explanation of the impact of packaging on the environment.	Students make a claim. Evidence is either not provided, not relevant, or incorrect.

Science and Engineering Practice

4 Advanced	3 Proficient	2 Partially Proficient	1 Beginning
Apply scientific principles to design an object, tool, process or system. Construct an oral and written argument to support packaging design solution. Connect the design solution to a sustainability concept.	Apply scientific principles to design an object, tool, process or system. Construct an oral and written argument to support packaging design solution.	Completes design and presentation requirements, but design and/or argument has errors in logic, engineering, and/or supporting evidence.	Required documentation of the engineering project is missing or incomplete.

Crosscutting Concept

4 Advanced	3 Proficient	2 Partially Proficient	1 Beginning
<p>Apply cause and effect to explain how packaging solutions reduce waste and consumption of natural resources. Explains the connection to sustainability.</p>	<p>Apply cause and effect to explain how packaging solutions reduce waste and consumption of natural resources.</p>	<p>Explains how packaging solutions reduce waste and/or consumption of natural resources. Cause and effect relationship is missing or unclear.</p>	<p>Explanation is missing or demonstrates errors in reasoning and/or evidence.</p>