

## Generic Open-Ended Rubric for Grades 5, 8, 11

Points	Qualities of the Student Response
4	<p>The response demonstrates thorough use of the three dimensions to make sense of scientific phenomena and/or to design solutions to problems.</p> <p>The response clearly applies science and engineering practices to provide an explanation or solution; provides a coherent and accurate explanation or solution based on disciplinary core ideas; reflects thorough understanding of complex ideas and crosscutting concepts; and effectively applies and demonstrates complete understanding of the three dimensions.</p>
3	<p>The response demonstrates sufficient use of the three dimensions to make sense of scientific phenomena and/or to design solutions to problems.</p> <p>The response may lack some detail or information, or the response may contain minor errors in applying and demonstrating understanding of science and engineering practices, disciplinary core ideas, and crosscutting concepts.</p>
2	<p>The response demonstrates limited use of the three dimensions to make sense of scientific phenomena and/or to design solutions to problems.</p> <p>The response may lack multiple details or information, or the response may contain major error(s) in applying and demonstrating understanding of science and engineering practices, disciplinary core ideas, and crosscutting concepts.</p>
1	<p>The response demonstrates minimal use of the three dimensions to make sense of scientific phenomena and/or to design solutions to problems.</p>
0	<p>The response is inaccurate, is irrelevant, or contains no evidence of use of the three dimensions to make sense of scientific phenomena and/or to design solutions to problems.</p>