

Mathematical Analysis

Learning Outcome 1: Ability to establish connections between real world phenomena and mathematical ideas

| Learning Outcome | 4 Thorough | 3 Adequate | 2 Limited | 1 Weak | Unscorable |
|---|---|--|--|---|---|
| <p>Ability to establish connections between real world phenomena and mathematical ideas.</p> | <p>Interprets relevant real world info into an accurate and appropriate mathematical portrayal</p> <p>Calculations are successful and sufficiently comprehensive to solve the problem</p> <p>Calculations and interpretation of solution are presented elegantly (clear, concise, real-world meaning, etc.)</p> <p>Answers are labeled with appropriate units</p> | <p>Interprets relevant real world info into a mostly appropriate mathematical portrayal</p> <p>Calculations are mostly successful and sufficiently comprehensive to solve the problem</p> <p>Some interpretation of solution/real world meaning is present and is mostly correct</p> <p>Answers are usually labeled with appropriate units</p> | <p>Interprets real world info into a mathematical portrayal that is only partially appropriate or accurate</p> <p>Calculations are partially successful and/or represent only a portion of what is required to comprehensively solve the problem</p> <p>Answers are sometimes labeled with appropriate units</p> | <p>Mathematical portrayal of real world info is mostly inappropriate or inaccurate</p> <p>Calculations are generally unsuccessful and are not comprehensive</p> <p>Answers are often labeled inappropriately or units are not specified</p> | <p>Evidence does not measure learning outcome</p> |

