| Advanced Score 4.0 | In addition to the Proficient (3.0) performance, makes *in-depth* inferences and extended applications of what was learned, including connections to other experiences. | Energy | Student will be able to...  
• Connect the key concepts of energy to a real world scenario (e.g. amusement park, production of electricity)  
| Waves | Student will be able to...  
• Create diagrams for reflection and refraction when waves travel from one medium to another |
| Proficient Score 3.0 | No major errors or omissions regarding any of the information and simple (Basic, 2.0) or complex processes (Proficient, 3.0) that was explicitly taught. | Energy | Student will be able to...  
• Solve mathematical problems involving potential energy, kinetic energy, work, and power  
• Develop a logical argument that shows a correlation between potential energy, kinetic energy, and the Law of Conservation of Energy  
| Waves | Student will be able to...  
• Solve mathematical problems involving the speed of waves  
• Interpret wave diagrams (e.g. node, antinodes, wavelengths, etc.) |
| Basic Score 2.0 | No major errors or omissions regarding the simpler details and processes (Basic, 2.0), but major errors or omissions regarding the more complex ideas and processes (Proficient, 3.0). | Energy | Student will be able to...  
• Recognize and recall specific terminology (e.g. mechanical, potential/kinetic energy, work, power, time and conservation of energy, gravity, heating, cooling, conduction, convection, and radiation); and  
• Perform basic processes such as...  
  o Identify the equation for potential energy and kinetic energy.  
  o Identify the main types of energy (e.g. mechanical energy, thermal energy, chemical energy, electrical energy, nuclear energy, electromagnetic energy)  
| Waves | Student will be able to...  
• Recognize and recall specific terminology (e.g. crest, trough, amplitude, wavelength, frequency, time, period, wave speed, longitudinal wave, transverse wave, surface wave, node, reflection, refraction, interference); and  
• Perform basic processes such as...  
  o Identify the difference between transverse and longitudinal waves.  
  o Identify the difference between reflection and refraction.  
  o List the types of Electromagnetic waves |
| Below Basic Score 1.0 | A *partial* understanding of some of the simpler details and processes (Basic 2.0), but major errors or omissions regarding the more complex ideas and processes (3.0). | | |
| Failing Score 0 | No evidence or insufficient evidence of student learning. | | |