

# World of Waves



## STEM Workshop featuring Technology and Innovation in Life, Earth and Physical Sciences

Due to a communication glitch between regions, the Elizabeth School District did not participate in the Limon Regional Event on Oct. 6, 2017. However, the district has arranged to have the same program brought to Singing Hills Elementary School on Saturday, January 20, 2018. The day long hands-on STEM workshop will be presented by the University of Colorado Boulder Science Discovery team. This event is for identified gifted and talent pool students in grades 3-6. Students will work in teams of 5 and we will need one parent volunteer for each team. Please mark the date on your calendars. A note will come home when registration is open. The cost will be less than the \$61.00 fee for the Limon regional event, and there should be room for all of our students to attend. Descriptions of the day's activities are below.

<b><i>Acoustics, Waves and Human Body Systems</i></b>	<b><i>Making Waves in Earth Science</i></b>	<b><i>Waves, Technology and Innovation</i></b>
<p>This module is focused on the role of waves in human body systems through student-directed inquiry using modern medical technologies and explorations of the fundamental science behind sound waves and hearing.</p> <p>Key Concepts: Sound Waves, Hearing, Wavelength, Frequency, Amplitude, Heart Rate</p>	<p>Focused on the essential role waves play in understanding the Earth System, plate tectonics and natural disasters, this module blends hands-on activities and fundamental physics with the development of key skills and abilities that innovative people need.</p> <p>Key Concepts: Seismic Waves, P and S Waves, Earthquakes, Engineering, Speed of Light</p>	<p>This module blends opportunities for innovative thinking with activities using thermal cameras, night vision systems, lasers and signals in an engaging module focused on the essential role electromagnetic waves play in 21<sup>st</sup>-century tools and technologies.</p> <p>Key Concepts: Electromagnetic Spectrum, Technology, Digital Signals, Thermal Energy, Night Vision, and Lasers</p>

