



MAKING WAVES

Electromagnetic Spectrum Explorations

The earner of this badge has:

1. Ordered and discussed a series of electromagnetic images.
2. Made a visual model of the electromagnetic spectrum.
3. Researched a particular section of the electromagnetic spectrum and shared a summary.
4. Determined relationships between wave frequency, wavelength, and wave energy of electromagnetic radiation.
5. Applied scientific notation and units in making wavelength, frequency, and energy calculations.
6. Given examples of what can be learned from using the Fermi Gamma Ray Space Telescope.
7. Kept a journal of electromagnetic energy encounters for one week.

Related Activities:

Taking the Measure of the Universe–Space, Interferometry, Mission: <http://goo.gl/OC8dl>

Shedding a New Light on the Universe: <http://goo.gl/ytwTT>

Starlite Lite (Astronaut Rescue Mission–assemble radios and use radio waves to find and rescue a downed astronaut–free iPad and PC app)
<http://www.startlitebadges.com>

Current Activity:

NASA Launchpad–Making Waves: <http://goo.gl/5pQVA>

NASA eClips videos, Launchpad: The Fermi Gamma Ray Space Telescope and Launchpad: Wave Motion: <http://goo.gl/PrX20>



This badge required a minimum of 3 hours of work.