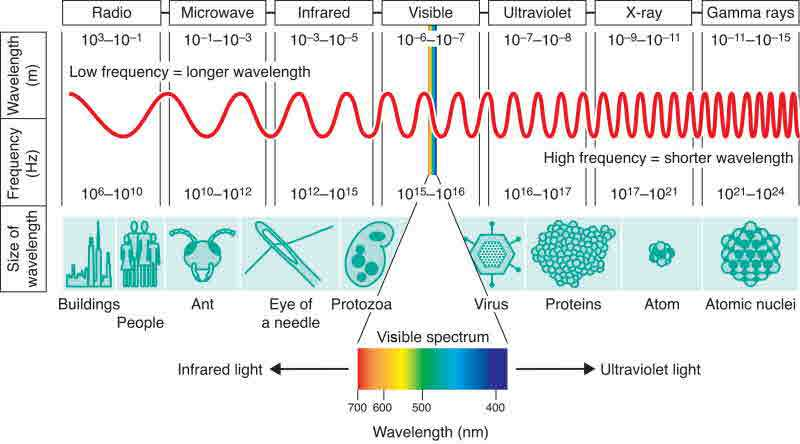
Electromagnetic Spectrum

*Light:*

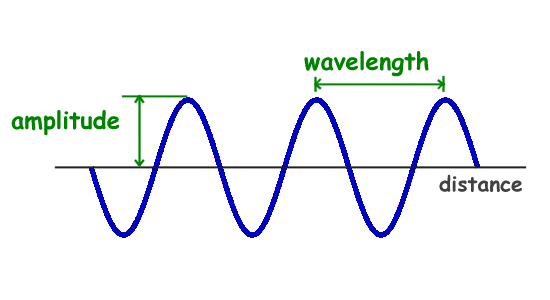
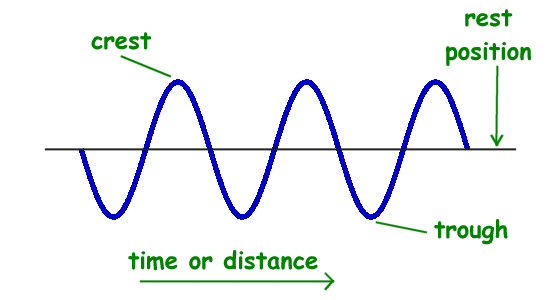
* Light is a form of energy that is visible to the human eye.
* Light is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that is visible to the human eye.
* There are many types of electromagnetic energy (light) but they all travel as waves at the speed of light.
* All of the different types of light are arranged in the electromagnetic spectrum.

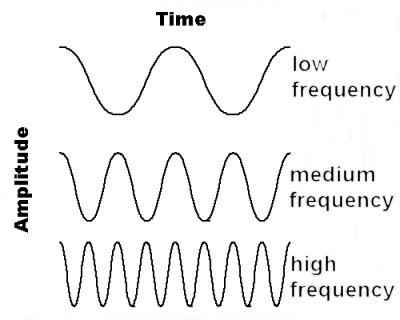
*Electromagnetic Spectrum*

* These are the different kinds of\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



* All electromagnetic energy travels in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ – the distance from one crest to the next crest (or one trough to the next trough)
* The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the number of waves that pass a point in one second (or a given unit of time)
* Frequency is given in units called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**[](http://www.google.ca/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.ducksters.com/science/physics/properties_of_waves.php&ei=1uDbVMmlHcGLgwSowoKQCA&bvm=bv.85761416,d.cWc&psig=AFQjCNGsa3jy4JcFh71-hvWq5ZBg9JR8Pg&ust=1423782310795027)[](http://www.google.ca/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.ducksters.com/science/physics/properties_of_waves.php&ei=X-DbVITYCoSyggS_nIGICA&bvm=bv.85761416,d.cWc&psig=AFQjCNGsa3jy4JcFh71-hvWq5ZBg9JR8Pg&ust=1423782310795027)**

[](http://www.google.ca/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://physicsf45spm.blogspot.com/2012/03/understanding-waves-form-5-chapter-1.html&ei=v-HbVLPzC4qogwTngoSYBw&bvm=bv.85761416,d.cWc&psig=AFQjCNGsa3jy4JcFh71-hvWq5ZBg9JR8Pg&ust=1423782310795027)Which colour has:

* 1. The longest wavelength?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* 2. The highest frequency?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* 3. The shortest wavelength?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* 4. The lowest frequency?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_