Web Research:

Electromagnetic Spectrum

Website: <http://imagine.gsfc.nasa.gov/science/toolbox/emspectrum1.html>

1. Draw the electromagnetic spectrum.

* Draw and label all wavelengths (radio, micro, infrared, visible light, ultraviolet, x-ray, and gamma).
* Put a star on the end of the wavelength with the most energy.
* Draw a ☺ by the wavelength with the highest frequency.
* Put an “x” on the end of the wavelength with the least amount of energy.
* Write “shortest” by the shortest wavelength.
* Write “longest” by the longest wavelength.

1. List how each wavelength is used in everyday life.

Radio –

Micro –

Infrared –

Visible light –

Ultraviolet

X-ray -

Gamma -

Website: <http://www.space.com/25732-redshift-blueshift.html>

1. What is the Doppler Effect?
2. Draw a picture depicting the Doppler Effect.
3. What is red shift?
4. Draw a picture depicting red shift.
5. What is blue shift?
6. Draw a picture depicting blue shift.

Website: <http://www.space.com/20330-cosmic-microwave-background-explained-infographic.html>

1. What is cosmic background radiation?
2. How do scientists use “cosmic background radiation” to support the “Big Bang Theory”?