Waves and Energy Transfer Learning Goals (Standard 4)

1. I can recall that the knowledge of the universe's history is based on electromagnetic energy (light).
2. I can recall that energy travels in the form of a wave.
3. I can give the definition for a wave.
4. I can identify the parts of a wave (amplitude, wavelength and frequency).
5. I can describe how waves transfer energy from electromagnetic energy to heat energy.
6. I can identify all of the parts of the electromagnetic spectrum.
7. I can compare the wavelengths, frequencies and energy for all of the parts of the electromagnetic spectrum.
8. I can explain how wavelength is related to energy.
9. I can explain the cosmic microwave background radiation.
10. I can explain the Doppler Effect and Red Shift.
 11. I can describe how these things occur with waves and energy transfer: Reflection Refraction Absorption Diffraction