**Chapter 4 – What do I need to know?**

* I can demonstrate knowledge of the behaviour of waves.
	+ What are waves? What are the characteristics of waves?
	+ Explain and/or label wavelength, amplitude, and frequency
	+ Describe two ways that a wave can travel through a medium
* I can explain the properties of visible light.
	+ Explain the wave model of light
	+ Compare the behavior of waves to the behavior of light
	+ Describe how/why refracting white light creates a rainbow
	+ Describe different colours in terms of their wavelength, frequency, energy
* I can compare visible light to other types of electromagnetic radiation
	+ Compare the electromagnetic waves in terms of wavelength, frequency, and energy.
	+ What can each of the electromagnetic waves be used for? Where do you come across them in your life?