**Honors Physics: study guide: energy, momentum, waves, etc.**

* **Know KE, PE, ME, and how to use basic formulae (short section)**
	+ **This will be review, as we have hit it already**
	+ **What is work?**
	+ **What is power?**
* **Momentum (also, short section)**
	+ **What is impulse?**
	+ **Law of conservation of momentum**
* **Waves (bulk of test)**
	+ **General properties: wavelength, frequency, period**
	+ **Transverse vs. longitudinal: more nomenclature to know**
	+ **Mechanical vs. electromagnetic**
		- **Appropriate calculations**
	+ **Doppler effect…be able to describe, etc.**
	+ **Reflection, refraction, diffraction**
		- **Understand idea behind Snell’s law, but I may not worry about calculations but know the direction of change (from air to denser medium for example)**
		- **What is the critical angle?**
	+ **Understand interference…constructive vs. destructive**