Integrated Physical Science Honors Course Syllabus 2016-17

This class utilizes the textbook *Conceptual Physical Science Explorations* (Hewitt, et. al., 2010). For a more detailed syllabus that includes unit objectives, see the IPSH Syllabus that can be downloaded from the class website.

	Topics/Units	Potential labs*
Semester 1	Science Skills Materials included in summer packet	Measurement
	Newton's Laws Chapters 2-5	 Speed Battery car 2nd Law Momentum
	Energy Chapters 6, 9	 Energy of a system Specific heat (formal lab report)
	The Periodic Table Chapters 15-17	Physical and chemical changesTrends in the periodic table
	Chemical Reactions Chapters 17-18, 20-21	Types of chemical reactions
Semester 2	Waves Chapters 12-14	Harmonic motionDoppler effect gizmo
	Climate Chapters 30-31	 Paleoclimates CO₂ concentration activity Ocean acidification Climate feedbacks
	Electricity and Magnetism Chapters 10-11	 Circuits Electrical stations Motors and generators
	Energy Resources Project	ResearchScientific poster presentation
	Geology Chapters 26-29	 Pacific Northwest tectonics Stream table WA geology flipbook
	Astronomy Chapters 32-33	Steven Hawking's Universe video
	Chapters 32-33	

* Specific labs may change as the course progresses