Central Science Standards Summary	Grade 8	2011
	Teacher:	

Oregon	Science Standard Summary:	Notes:
Oregon Code	Science Standard Summary.	Notes.
6.1P.1	Matter: Physical & chemical	
0.11	properties; measurement	
8.1P.3	States of matter; motion &	
0.1.	spacing of particles	
8.1P.2	Periodic Table: elements	
0.11.2	organized by their physical &	
	chemical properties	
7.1P.1	Matter is made of atoms;	
	elements are composed of a	
	single kind of atom;	
	compounds are composed of	
	two or more different	
	elements.	
8.1P.1	Atomic models: types &	
	arrangements of atoms	
	determine the physical &	
	chemical properties of	
	elements & compounds.	
8.2P.1	Physical & chemical changes;	
	law of conservation of mass	
6.1L.1	Cells' functions; relative	
	complexity of cells, tissues,	
	organs, and organ systems	
7.2L.1	Cell organelles: cellular	
	processes; obtaining the raw	
	materials for those processes	
6.2L.1	Cells, tissues, organs, & organ	
	systems	
7.1L.1	Reproduction; sexual &	
	asexual; essential to the	
	continuation of every species.	
8.1L.1	Classification: by genetics &	
	anatomical characteristics;	
	infer evolutionary	
	relationships	
7.1L.2	Traits; inherited vs. learned;	
	inherited traits passed to next	
	generation; phenotype,	
	genotype, chromosomes, &	
	genes	

	Science Standard Summary for Gr 8	Notes:
7.2L.2	Processes by which organisms	
	obtain energy & materials for	
	growth & metabolism.	
6.2L.2	Ecosystem: individual	
	organisms & populations	
	interaction; changes in	
	populations are related to	
	resources.	
8.2L.1	Natural selection: species	
	change through the process;	
	evidence for evolution.	
8.35.1	Propose questions or	
	hypotheses; use independent	
	& dependent variables, &	
	controls; collect relevant data.	
8.35.2	Use relevant data; construct	
	evidence-based explanation of	
	scientific investigation;	
	communicate conclusions;	
	include possible sources of	
	error; suggest new	
	investigations based on	
	analysis of results.	
8.35.3	Scientific explanations &	
	theories evolve as new	
	information is available.	
8.4D.1	Define a problem that	
	addresses a need; investigate	
	possible solutions; use	
	specified criteria, constraints,	
	priorities, and trade-offs.	
8.4D.2	Design, construct, & test a	
	proposed engineering design	
	solution; collect relevant data;	
	evaluate proposed design	
	solution as to design &	
	performance criteria,	
	constraints, priorities, & trade-	
	offs; identify possible design	
0.45.3	improvements.	
8.4D.3	New technology: requires	
	considering societal goals,	
	costs, priorities, and tradeoffs	