

# 6th Grade Accelerated Honors - Cycle 1 2018-2019 - Content Focus Report

Benchmark	#	Focus
SC.8.P.8.5 - Recognize that there are a finite number of elements and that their atoms combine in a multitude of ways to produce compounds that make up all of the living and nonliving things that we encounter.	1.	pure substance
	2.	compounds
	3.	elements and compounds
	4.	elements and compounds
	5.	comparison of element and compound
SC.8.P.8.6 - Recognize that elements are grouped in the periodic table according to similarities of their properties.	6.	elements with similar properties - graphic
	7.	groups
	8.	periodic table grouping - graphic
SC.912.P.8.5 - Relate properties of atoms and their position in the periodic table to the arrangement of their electrons.	9.	periodic table grouping - graphic
	10.	elements with similar properties - graphic
SC.8.P.8.7 - Explore the scientific theory of atoms (also known as atomic theory) by recognizing that atoms are the smallest unit of an element and are composed of sub-atomic particles (electrons surrounding a nucleus containing protons and neutrons).	11.	properties of an atom
	12.	neutral atom
	13.	nucleus of an atom
SC.912.P.8.4 - Explore the scientific theory of atoms (also known as atomic theory) by describing the structure of atoms in terms of protons, neutrons and electrons, and differentiate among these particles in terms of their mass, electrical charges and locations within the atom.	14.	atom and charges
	15.	neutrons - graphic
SC.6.L.14.1 - Describe and identify patterns in the hierarchical organization of organisms from atoms to molecules and cells to tissues to organs to organ systems to organisms	16.	hierarchical organization - small to big
	17.	make up of an organism
	18.	organs and organ systems - graphic
SC.6.L.14.2 - Investigate and explain the components of the scientific theory of cells (cell theory): all organisms are composed of cells (single-celled or multi-cellular), all cells come from pre-existing cells, and cells are the basic unit of life.	19.	basic unit of life
	20.	pre-existing cells
	21.	viruses and the cell theory
	22.	composed of cells - graphic
	23.	pre-existing cells

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SC.6.L.14.3 - Recognize and explore how cells of all organisms undergo similar processes to maintain homeostasis, including extracting energy from food, getting rid of waste, and reproducing.	24.	elimination of wastes
	25.	maintain homeostasis
	26.	extracting energy from food - graphic
	27.	homeostasis not maintained - graphic
SC.6.L.14.4 - Compare and contrast the structure and function of major organelles of plant and animal cells, including cell wall, cell membrane, nucleus, cytoplasm, chloroplasts, mitochondria, and vacuoles.	28.	homeostasis not maintained
	29.	plant cell organelles - graphic
	30.	nucleus
	31.	plant and animal cell comparison
SC.912.L.14.2 - Relate structure to function for the components of plant and animal cells. Explain the role of cell membranes as a highly selective barrier (passive and active transport).	32.	plant cell organelles
	33.	cytoplasm
SC.912.L.14.3 - Compare and contrast the general structures of plant and animal cells. Compare and contrast the general structures of prokaryotic and eukaryotic cells.	34.	prokaryotic vs. eukaryotic
	35.	plant and animal cell comparison
SC.6.N.1.1 - Define a problem from the sixth grade curriculum, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigation of various types, such as systematic observations or experiments, identify variables, collect and organize data, interpret data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.	36.	experimental procedures
	37.	steps of scientific investigation