

Seminars on Science: Correlation to the National Science Education Content Standards

Genetics, Genomics, Genethics: Molecular Biology

Unifying concepts and processes in science	✓	Systems, order, and organization.
	✓	Evidence, models, and explanation.
	✓	Change, constancy, and measurement.
	✓	Evolution and equilibrium.
	✓	Form and function.

Standard A: Science as inquiry	✓	Abilities necessary to do scientific inquiry
	✓	Understandings about scientific inquiry

Standard B: Physical science	✓	Structure of atoms
	✓	Structure and properties of matter
	✓	Chemical reactions
		Motions and forces
		Conservation of energy and increase in disorder
		Interactions of matter and energy

Standard C: Life science	✓	The cell
	✓	Molecular basis of heredity
	✓	Biological evolution
	✓	Interdependence of organisms
	✓	Matter, energy, and organization in living systems
	✓	Behavior of organisms

Standard D: Earth and space science		Energy in the earth system
		Geochemical cycles
		Origin and evolution of the earth system
		Origin and evolution of the universe

Standard E: Science and tech	✓	Abilities of technological design
	✓	Understanding about science and technology

Standard F: Science in personal and social perspectives	✓	Personal and community health
	✓	Population growth
		Natural resources
		Environmental quality
	✓	Natural and human-induced hazards
	✓	Science and technology in local, national, and global challenges

Standard G: History and nature of science	✓	Science as a human endeavor
	✓	Nature of scientific knowledge
	✓	Historical perspective