

8th Grade Science Pacing

Scope and Sequence Unit	Unit	Content Topics	Time Frame
Reproduction, Heredity, and Evolution	Reproduction and Development	Asexual reproduction, Sexual reproduction (including sex cells, fertilization, methods of, male/female reproductive systems, human reproduction), DNA/genes, Life cycles, Patterns of development among animals/metamorphosis, Cell division, Cancer in relation to cell division, Nervous and Endocrine systems	9/9-10/9 <i>Chapter 2 & Chapter 6</i>
	Plant Reproduction	Asexual reproduction in plants, Sexual reproduction in plants, Structures for reproduction in plant, Patterns of development in plants	10/13-10/27 <i>Chapter 3</i>
	Heredity	Genes, DNA, Inherited Traits, Dominant/Recessive, Trait Expression, Disease	10/28-11/13 <i>Chapter 5</i>
	Adaptations over Time	Mutations, Variety of Traits, Survival, Competition, Selective Breeding, Extinction of Species, History of Life forms (layers of sedimentary rocks), Time for change	11/16-12/4 <i>Chapter 7</i>
Forces and Motion on Earth	Forces and Motion on Earth	Motion, Position, Forces acting, Direction, Speed, Rest, Mass, Acceleration, Action/Reaction, Electric Currents & magnets exert force	12/7-1/8 <i>Chapter 15, 16, 18, 19</i>
Long Term Science Projects		Design and conduct investigations – observations, measurements, identify and control variables, use mathematical and technological tools	1/11-1/29
The Sun, Earth, and Moon System	The Sun, Earth, and Moon System	Solar System. Earth (rotation, revolution, axis) Moon (reflected light, orbit, phases of moon), Sun (stars), Comparative Size of Earth and Sun Latitude/Longitude System, Gravity, Motion of Objects (position, direction, speed, force)	2/1-2/26 <i>Chapter 11, 13, Chapter 14</i>
Humans and the Environment: Needs and Tradeoffs	Energy and Energy Resources /Humans and the Environment	Law of Conservation of Energy, Forms of Energy, Energy transformations (including electrical circuits), Loss of energy as heat, Sources of Energy Food for survival, Competition of Resources, Overpopulation, Extinction of Species/Fossil evidence, Activities of Organisms (including humans), Pollutants, Altering of Environment/Ecological Effects, Disease	2/29-4/8 <i>Chapters 8 and 9</i>

	Immunity	Natural defenses against disease; Active and passive immunity; Discovery, prevention, and treatment of disease; Infectious and noninfectious; Characteristics of cancer; Chemicals' impact on the body	4/11-4/22 Chapter 10
	Intermediate Level Science Test Review	Review 6 th , 7 th , and 8 th grade topics from Scope and Sequence	5/2-6/6
	Reflection and Extension	Group projects/presentations on	6/7-6/28