

## 6<sup>th</sup> Grade Science Pacing

Scope and Sequence Unit	Unit	Content Topics	Time Frame
Energy and Simple Machines	Nature of Science	Design and conduct investigations – observations, measurements, identify and control variables, use mathematical and technological tools	September 9 <sup>th</sup> – October 9 <sup>th</sup>
	Energy and Energy Resources	Law of Conservation of Energy, Forms of Energy, Energy transformations, Sources of Energy, <b>Electromagnetic energy (wavelengths), Transmitting light</b>	October 13 <sup>th</sup> – October 23 <sup>rd</sup>
	Simple Machines	Types of Simple Machines, Simple machines affect work, Friction and reducing friction, Complex machines, Mechanical energy	October 26 <sup>th</sup> – November 6 <sup>th</sup>
Weather and Atmosphere	States of Matter	Properties of Matter, States of Matter, Phase/physical changes, Density, Air pressure	November 9 <sup>th</sup> – November 25 <sup>th</sup>
	Thermal Energy	Heat energy absorbed/released, expanding/contracting, Movement of T.E., Heat transfer	November 30 <sup>th</sup> – December 11 <sup>th</sup>
	Atmosphere	Layers of Earth (lithosphere, hydrosphere, atmosphere), Composition & layers of atmosphere, water cycle, greenhouse effect (human impact)	December 14 <sup>th</sup> – December 23 <sup>rd</sup> January 4 <sup>th</sup> – 8 <sup>th</sup>
	Weather	Movement of air masses, winds, fronts, pressure systems, extreme weather	January 11 <sup>th</sup> – January 29 <sup>th</sup>
Diversity of Life	Life's Structure & Classification	Needs of living things, Cells, Cell theory, Parts of cells, Organization of multicellular organisms, Organs and organ systems, Classification,	February 1 <sup>st</sup> – February 26 <sup>th</sup>
	Interactions of Life	Methods of obtaining nutrients (producers, consumers, herbivores, carnivores, omnivores), Energy flow through ecosystems, food webs <b>Energy released from food, food contents (fats, vitamins, proteins...), metabolism, calories, balance of nutrients</b>	February 29 <sup>th</sup> – March 31 <sup>st</sup>
	Nonliving Environment	Cycles in living/nonliving environment (water, nitrogen, carbon dioxide, oxygen), photosynthesis	April 4 <sup>th</sup> – April 22 <sup>nd</sup>  MOSL REVIEW

Interdependence	Interdependence (possible project-based unit)	<ul style="list-style-type: none"><li>• Climate</li><li>• Affect of Earth's tilt</li><li>• Human activity affecting atmosphere, weather, climate</li><li>• Populations</li><li>• Relationships among organisms</li><li>• Organisms alter the environment</li><li>• Monitoring health of environment</li></ul>	May/June
-----------------	--	---	----------