

Systems	Properties, Patterns, and Models	Consistency and Change
<p>4.5 – The student knows that complex systems may not work if some parts are removed.</p>	<p>4.7 – The student knows that matter has physical properties.</p>	<p>4.6 – The student knows that forces cause change.</p>
<p>4.5A – Identify and describe the roles of some organisms in living systems such as plants in a schoolyard and parts in nonliving systems such as a light bulb in a circuit.</p> <p>4.5B – Predict and draw conclusions about what happens when part of a system is removed.</p>	<p>4.7A – Observe and record changes in the states of matter caused by the addition or reduction of heat.</p> <p>4.7B – Conduct tests, compare data, and draw conclusions about physical properties of matter including states of matter, conduction and density, and buoyancy.</p>	<p>4.6A – Identify patterns of change such as in weather, metamorphosis, and objects in the sky.</p> <p>4.6B – Illustrate that certain characteristics of an object can remain constant even when the object is rotated like a spinning top, translated like a skater moving in a straight line, or reflected on a smooth surface.</p> <p>4.6C – Use reflections to verify that a natural object has symmetry.</p>
	<p>4.11 – The student knows that the natural world includes earth materials and objects in the sky.</p>	<p>4.8 – The student knows that adaptations may increase the survival of members of a species.</p>
	<p>4.11A – Test properties of soils including texture, capacity to retain water, and ability to support life.</p> <p>4.11B – Summarize the effects of the oceans on land.</p> <p>4.11C – Identify the Sun as the major source of energy for the Earth and understand its role in the growth of plants, in the creation of winds, and in the water cycle.</p>	<p>4.8A – Identify characteristics that allow members within a species to survive and reproduce.</p> <p>4.8B – Compare adaptive characteristics of various species.</p> <p>4.8C – Identify the kinds of species that lived in the past and compare them to existing species.</p>
		<p>4.9 – The student knows that many likenesses between offspring and parents are inherited or learned.</p>
		<p>4.9A – Distinguish between inherited traits and learned characteristics.</p> <p>4.9B – Identify and provide examples of inherited traits and learned characteristics.</p>
		<p>4.10 – The student knows that certain past events affect present and future events.</p>
		<p>4.10A – Identify and observe effects of events that require time for changes to be noticeable including growth, erosion, dissolving, weathering, and flow.</p> <p>4.10B – Draw conclusions about “what happened before” using fossils or charts and tables.</p>