

K-5 SCOPE AND SEQUENCE: LIFE SCIENCE STRAND OBJECTIVES

Concept	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
PWC Objective	K.2.1 and K.2.2	1.2.1 – 1.2.3	2.2.1 – 2.2.3	3.2.1 – 3.2.3	4.2.1 – 4.2.2	5.2.1
<i>Cycles/Patterns</i>	SOL K.8a-d—observable patterns in daily life: shapes, growth, routines SOL K.9a, b—natural changes occur over time and can be noted and observed	SOL 1.7a-c—relationship between seasonal changes and life processes; activities of plants (budding, falling leaves); animals (body covering changes, behaviors); people (dress, recreation)	SOL 2.4a, b—life cycles of plants and animals (specific-frog, butterfly, flowering plants); comparison of gradual vs. distinct change SOL 2.7a—effects of weather and seasonal changes on plants and animals	SOL 3.4b—behavioral adaptations (learned, instinctive behaviors) SOL 3.8a, b—plant and animal life cycles in specific environments	SOL 4.5e—Virginia plant and animal life cycles	
<i>Life Needs</i>	SOL K.6a-c—basic needs and concept of life cycles	SOL 1.4a—plant needs SOL 1.5a—animal needs				
<i>Physical Characteristics / Adaptations of Living Things</i>		SOL 1.4b, c—plant parts and classification by characteristics SOL 1.5b, c—physical characteristics and classification by characteristics		SOL 3.4a—animal physical adaptations	SOL 4.4a, b—general plant anatomy; plant structures; plant classification SOL 4.4c, d—plant processes SOL 4.5a—Virginia organisms behavioral, structural adaptations	SOL 5.5a-d—cell anatomy and classification (cell structure/function; five kingdoms; general plant and animal groupings (vascular/nonvascular; vertebrate/invertebrate)
<i>Interrelationships</i>			SOL 2.5a, b—living things are a part of a system (interdependence with living and nonliving; changing habitats); extinction	SOL 3.5a-c—aquatic and terrestrial food chains; producer/consumer; predator/prey; herbivore/carnivore	SOL 4.5b, c, d—Virginia food webs, habitats, niches, communities	
<i>Environments</i>				SOL 3.6a-c—types of environments (land, water); concept of population and community; diversity of life in environments	SOL 4.5f—human influences on Virginia ecosystems	