Theme/ Grade Band	K-1	2	3	4				
Characteristics of Organisms	Explain how plants need air, water, nutrients, and light.	Explain how plants AND animals need air, water, nutrients, and light. Demonstrate how the functions of plants and animals influence growth and survival (humans: walking, talking, seeing).	Features that improve chances for survival. Organisms have different parts that serve different functions.	Features that improve chances for survival. Organisms have different parts that serve different functions.				
p or cw	Explain how the behavior of individual organisms is influenced by internal cues (hunger, senses).	Explain how the behavior of individual organisms is influenced by external cues (seasons).	Structures and functions of organisms.	Structures and functions of organisms.				
	<u> </u>		nals have distinct life cycles.	b or 6 6 11 4 cm				
mism		Explore how a life cycle include	s birth, development and death.					
life Cycles of Organisms	What is a life cycle - birth, growth, and death.	What is a life cycle - birth, growth, and death.						
Sels	Offspring are similar to the parents	Offspring are similar to the parents	Plant and Animal life cycles	Plant and Animal life cycles				
Č	Inherited/learned characteristics	Inherited/learned characteristics						
Life	Explain that some characteris	tics of plants and animals are a res	sult of their environment and are no	ot passed on through heredity.				
b lc cm	b lc 6 6 11 k1 cm	b lc 6 6 11 2 cm	b lc 6 6 11 3 cm	b lc 6 6 11 4 cm				

Theme/ Grade Band	5	6	7	8					
Characteristics of Organisms	Cell, tissue, organ, system for plants and animals Cell structure Organisms have similar structures	Cell, tissue, organ, system for plants and animals Cell structure Organisms have similar structures	Extinction and Evolution	Extinction and Evolution	characteristics of organisms				
Characteris	BASIC CELL STRUCTURE	Explore extinction as a result of adaptive characteristics and environmental changes.							
b or cm	b or 6 6 11 5 cm	b or 6 6 11 6 cm Explain how plants and anin	b or 6 6 11 7 cm	b or 6 6 11 8 cm					
nism	Explore how	v a life cycle includes being born, d	•	ı, and death.	SL				
Life Cycles of Organisms	Cellular Reproduction - Mitosis Asexual and Sexual reproduction	Cellular Reproduction - Mitosis Asexual and Sexual reproduction	Meiosis DNA MENDELIAN Genetics	Meiosis DNA MENDELIAN Genetics	Life Cycles of Organisms				
b lc cm	b lc 6 6 11 5 cm	b lc 6 6 11 6 cm	b lc 6 6 11 7 cm	b lc 6 6 11 8 cm					

Theme/ Grade Band		K-	1					2							3							4			
onments		ow plan pportec nvironr	d by dis		Is								ironm ositiv		gativ	e, ne									
Organisms and their Environments	Living a								Fossils the environment, and extinction						Explore how humans change their environment and the environments of other organisms in good and bad ways.										
Organisms	Extino	ction is	introdu	ıced																					
		Expla	in that	when	the env	ironme	ent ch	nang	es, p	lants	and	anima	als wil	l eith	er su	ırvive	e, die	or n	nove	to nev	v loca	ation	S.		
b oe cm	b oe	6 6	11	k1 d	m b	oe	6	6	11	2	cm	b	oe	6	6	11	3	cm	b	oe	6	6	11	4	cm

Theme/ Grade Band	5	6	7	8					
nments	Food webs, Food chains, Energy Flow	Explain organisms' stimulus/response reactions to their environments.	Transfer of matter and energy Photosynthesis	Transfer of matter and energy Photosynthesis	S				
Organisms and their Environments	Symbiotic Relationships	Explore the physical factors of all populations living together that compose an ecosystem.			Organisms and their environments				
Organisms	Distinguish how sunlight is the major source of energy for ecosystems (food web).	Explore how light, water, temperature, and soil composition are all factors to be considered in an ecosystem.			Organis				
	Explore the similarity of organisms								
b oe cm	b oe 6 6 11 5 cm	b oe 6 6 11 6 cm	b oe 6 6 11 7 cm	b oe 6 6 11 8 cm					