Grade 2 Science Pacing Guide Symbol Key

Split: This Standard of Learning has been <i>split</i> into more than one nine-week block.					☐ Incorporate: <i>Incorporate</i> this skill into the daily routine.						
© Integrate: This skill should NOT be taught in isolation. Integrate the skill into daily					® Review: This skill was taught for mastery in a previous nine-week block. Continue to						
lessons.					<i>review</i> this mastered skill, with heavy emphasis, in the listed nine-week block.						
First 1	Nine Weeks	s – embed 2.1 thre	oughout the year	after the initial in	troduction						
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9		
			nderstanding of scier	tific and	2.1 a-m @ ® S	Scientific Investig	gation, Reasoning	g, and Logic			
engin	eering praction										
a) asking questions and defining problems						Unit 3 – All About Animals					
•		s that can be investigate									
•			ons and prior experience		2.	5 Living Systems	•				
• .		nple problem that can be	e solved through the dev	elopment of a new tool							
	proved object	1			T	he student will in	vestigate and un	derstand that liv	ing things are		
b)		d carrying out investigat		1 14		art of a system. K			8 8		
•			nple investigations to progth, weight, and tempera			plants and anima			and nonliving		
ucina	U.S. Customary		giii, weigiii, and tempera	ture of common objects		ırroundings;	1	Č	C		
• using		e intervals using proper	tools		b)	an animal's habit	tat provides all of it	s basic needs; and			
c)		analyzing, and evaluating			c) habitats change over time due to many influences.						
•		l represent data in pictog									
•			n pictographs and bar gra	nphs	2.	4 Life Processes					
d)		and critiquing conclusion		•							
•		conclusions based on d				he student will in					
•		etween opinion and evid				nimals undergo a		changes as they	grow and		
•		nusual or unexpected res	sults		de	evelop. Key ideas					
e)		and using models			a)						
•	use models 1	o demonstrate simple pl	henomena and natural pr	ocesses	b)	plants have life c	ycles.				
f)		valuating, and communic									
• •	communicat n, and/or writing		using simple graphs, dra	wings, numbers,							
speech	i, and/or writing										
2.5 L	Living Systems	S									
			erstand that living t	hings are part of a							
	m. Key ideas i	C	· · · · · · · · · · · · · · · · · · ·	8~ P							
a)			nt with their living and n	onliving surroundings:							
b)		habitat provides all of its		-8							
c)		nge over time due to man									
Textbo	ook pp. 1-40 (Unit	1) pp 41-76(Unit 2)			Textbook pp. 77-13	34 (Unit 3)					
						placed on change to plied to both living			uickly or slowly.		
					ĺ						

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Second Nine Weeks – embed 2.1 with each unit – students should have at least 1 lab per unit

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Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9		
engineering pract Unit 4 Al Finish 2.4 2.5 Living The stude part of a a) p nonliving b) a	ices I About Plants I if needed – Animal g Systems ent will investigate ar system. Key ideas incolants and animals are surroundings; an animal's habitat pro habitats change over ti	an understanding and Plant Life Cycles and understand that livelude interdependent with the evides all of its basic not me due to many influe	ving things are neir living and needs; and	Week 5 Week 6 Week 7 Week 8 Week 9 2.1 a-m ⊕ ® Scientific Investigation, Reasoning, and Logic Unit 5 Environments for Living Things 2.8 Earth Resources The student will investigate and understand that plants are important natural resources. Key ideas include a) the availability of plant products affects the development of a geographic area; b) plants provide oxygen, homes, and food for many animals; and c) plants can help reduce the impact of wind and water.						
	gnized explicitly as a na	itural resource***		Textbook pp. 179-	224 (Omt 3)					

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Third Nine Weeks – continue to embed 2.1 with each unit – Students should have at least 1 lab per unit Week 1 Week 2 Week 3 Week 4 Week 5 Week 6 Week 8 Week 9 Week 7 2.1 The student will demonstrate an understanding of scientific and 2.1 a-m © ® Scientific Investigation, Reasoning, and Logic engineering practices **Unit 7 All About Weather** Unit 10 - Force 2.6 Interrelationships in Earth/Space Systems 2.2 The student will investigate and understand that different types of forces may cause an object's motion to change. Key ideas include a) forces from direct contact can cause an object to move; The student will investigate and understand that there are different types b) some forces, including gravity and magnetism, can cause objects to move from of weather on Earth. Key ideas include a distance; and different types of weather have specific characteristics; c) forces have applications in our lives. measuring, recording, and interpreting weather data allows for identification of weather patterns; and c) tracking weather allows us to prepare for the weather and storms Textbook pp. 381-414 (Unit 10) Textbook pp. 263-314 (Unit 7) ***The concept of force continues to develop as students learn that forces can be direct (push or a pull) or can occur over a distance (magnetism and gravity). The term force is introduced in second grade***

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Fourth Nine Wee	ks - continue to e	mbed 2.1 with ea	ch unit – Student	s should have at least 1 lab per unit					
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	
2.1 The student will engineering practic Unit 6 Earth an 2.7 Earth Patt The student will inverted the student will inverted and bound and we contain the changes can	engineering pra Unit 9 2. 3 Th in diffe a) matt b) solid	Changes in Ma e student will in erent phases. Keer has mass and talls, liquids, and gas	tter nvestigate and ur ey ideas include						
Textbook pp. 225-262 (U	nit 6)			Textbook pp. 347-380 (Unit 9)					
Emphasis is place This concept applied	***The concept of matter is explicitly defined in 2.3								