

SciGirls 
**SciGirls Participate:
 Citizen Science
 Adventures**



NEXT GENERATION SCIENCE STANDARDS																				
Grade 3					Grade 4	Grade 5				Middle School Grades 6-8										
Life Science					Physical Science	Life Science	Earth and Space Science	Physical Science		Life Science			Earth and Space Science							
3-LS1-1. Develop models to describe that organisms have unique and diverse life cycles but all have in common birth, growth, reproduction and death.					4PS3-2. Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat and electrical currents.	5-LS2-1. Develop a model to describe the movement of matter among plants, animals, decomposers and the environment.	5-ESS3-1. Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.	5-PS1-3. Make observations and measurements to identify materials based on their properties.		5-PS3-1. Use models to describe that energy in animals' food (used for body repair, growth, and motion and to maintain body warmth) was once energy from the sun.	MS-LS1-4. Use argument based on empirical evidence and scientific reasoning to support an explanation for how characteristic animal behaviors and specialized plant structures affect the probability of successful reproduction of animals and plants, respectively.			MS-LS1-6. Construct a scientific explanation based on evidence for the role of photosynthesis in the cycling of matter and flow of energy into and out of organisms.	MS-LS2-2. Construct an explanation that predicts patterns of interactions among organisms across multiple ecosystems.		MS-ESS3-3. Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment.		MS-ESS3-4. Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's system.	
3-LS3-1. Analyze and interpret data to provide evidence that plants and animals have traits inherited from parents and that variation of these traits exists in a group of similar organisms.																				
3-LS4-2. Use evidence to construct an explanation for how the variations in characteristics among individuals of the same species may provide advantages in surviving, finding mates and reproducing.																				
3-LS4-3. Construct an argument with evidence that in a particular habitat some organisms can survive well, some survive less well and some cannot survive at all.																				
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Season Seeking	X	X					X						X							
Bird is the Word		X					X			X										
Wetland Band		X	X				X			X										
Cloud Clues					X		X	X												
Out and About	X	X	X	X			X			X		X								
All Tangled Up		X		X			X	X	X		X	X	X	X	X	X				



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COMMON CORE STANDARDS FOR ENGLISH LANGUAGE ARTS & LITERACY IN SCIENCE AND TECHNICAL SUBJECTS					
		Grade 5		Grades 6-8	
		Speaking & Listening	Writing	Writing Standards for Literacy in History/Social Studies, Science, and Technical Subjects	
		SL.5.1 Engage effectively in a range of collaborative discussions with diverse partners on grade 5 topics and texts, building on others' ideas and expressing their own clearly. (See also SL.3.1, 4.1, 6.1, 7.1, 8.1)	SL.5.4 Report on a topic or text or present an opinion, sequencing ideas logically and using appropriate facts and relevant, descriptive details to support main ideas or themes; speak clearly at an understandable pace. (See also SL.3.4, 4.4, 6.4)	W.5.7 Conduct short research projects that use several source to build knowledge through investigation of different aspects of a topic. (See also W.3.7, 4.7, 6.7)	W.6.7 Conduct short research projects to answer a question (including a self-generated question), drawing on several sources and generating additional related, focused questions that allow for multiple avenues of exploration.
Season Seeking	X	X	X	X	
Bird is the Word	X	X	X	X	
Wetland Band	X	X	X	X	
Cloud Clues	X	X	X	X	
Out and About	X	X	X	X	
All Tangled Up	X	X	X	X	

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