

Aquatic Resources Education Center – DCPS Science Learning Standards

Grade Level	Lesson	Learning Standard	Cornerstone	Engineering is Elementary (EiE) Connection	Environmental Literacy Plan Guiding Questions
Pre-K	River Life	SI.5.3 SI.5.4			<i>The World Around Us:</i> <ul style="list-style-type: none"> - How can we use our five senses to learn about the environment? - What do living things need to grow?
	Nature Tales	SI.5.3 SI.5.4			
K	River Life	K-LS1-1 D2.Geo.6.K-2			<i>The World Around Us:</i> <ul style="list-style-type: none"> - What do plants and animals need to survive? - What are the ways to care for the plants and animals in our community?
	Nature Tales	K-LS1-1			
1	River Life				<i>Patterns & Growth:</i> <ul style="list-style-type: none"> - How do natural patterns affect living things? - How do plants and animals change over the course of their lives? - How do humans mimic plants and animals to solve problems?
	Sensational Skin	1-LS1-1	DCPS Grade 1, Science, Cornerstone 2, "Just Passing Through: Designing Model Membranes"	Just Passing Through: Designing Model Membranes	
	Nature Tales	1-LS1-2			
	When I Grow Up	1-LS3-1			
2	River Life	2-LS4-1			<i>Changing Landscapes:</i> <ul style="list-style-type: none"> - How do plants and animals support each other in our community? - What forces change our local landscape? - How does a structure of an object determine its function?
	Sensational Skin	2-PS1-2		Just Passing Through: Designing Model Membranes	
	Nature Tales	2-LS4-1			
	When I Grow Up	2-LS4-1			
3	Amazing Amphibian Adaptations	3-LS3-2 3-LS4-2 3-LS4-3			<i>Environmental Changes & Adaptations:</i> <ul style="list-style-type: none"> - How do living things adapt to changes in the environment?
	Curious Comparisons	3-LS1-1 3-LS3-1	DCPS Grade 3, Math, Cornerstone 3, "Zoo Graphing"		
	Fabulous Food Webs	3-LS4-3 3-LS4-4		A Slick Solution: Cleaning an Oil Spill	
	Sensational Skin	3-LS3-2 3-LS4-3		Just Passing Through: Designing Model Membranes	

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4	Amazing Amphibian Adaptations	4-LS1-1			
	Curious Comparisons	4-LS1-1			
	Fabulous Food Webs	4-ESS3-2		A Slick Solution: Cleaning an Oil Spill	
	Sensational Skin	4-LS1-1		Just Passing Through: Designing Model Membranes	
5	Amazing Amphibian Adaptations				<i>Web of Life:</i> - We are what we eat; how does energy cycle through the food web? - How do the four spheres of the Earth's systems interact?
	Curious Comparisons		DCPS Grade 5, Math, Cornerstone 4, "Aquarium Designs"		
	Fabulous Food Webs	5-LS1-1 5-LS2-1 5-PS3-1	DCPS Grade 5, Science, Cornerstone 3, "Teyha's Pollution Solution"	A Slick Solution: Cleaning an Oil Spill	
	Sensational Skin	5-ESS3-1		Just Passing Through: Designing Model Membranes	

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6	Conservation Concern: Save the Shad	MS-LS1-6 MS-LS2-1 MS-LS2-3 MS-LS2-4 MS-ESS3-3	DCPS Grade 6, Cornerstone 3, “Our Region’s Landscape and Human Impact”	<i>Earth & Human Activity:</i> – What are the consequences of human activity on air, land, and water over time?
	Invertebrate Indicators: Clues to Stream Health	MS-LS2-4 MS-ESS3-3		
	Fishable Waters	MS-LS2-1 MS-LS2-4 MS-ESS3-4		
	Watershed Wonders: Helping or Hurting?	MS-LS2-4 MS-LS2-5 MS-ESS2-4 MS-ESS3-3 MS-ESS3-4		
7	Conservation Concern: Save the Shad	MS-LS1-6 MS-LS2-1 MS-LS2-3 MS-LS2-4 MS-ESS3-3	DCPS Grade 7, Science, Cornerstone 4, “Bioremediation”	<i>Exploring Solutions:</i> – How can we creatively address the environmental consequences of human activity?
	Invertebrate Indicators: Clues to Stream Health	MS-LS2-4 MS-ESS3-3		
	Fishable Waters	MS-LS2-1 MS-LS2-4 MS-ESS3-4		
	Watershed Wonders: Helping or Hurting?	MS-LS2-4 MS-LS2-5 MS-ESS2-4 MS-ESS3-3 MS-ESS3-4		
8	Conservation Concern: Save the Shad	MS-LS1-6 MS-LS2-1 MS-LS2-3 MS-LS2-4 MS-ESS3-3		<i>Earth Works:</i> – How do the choices you make affect the environment?
	Invertebrate Indicators: Clues to Stream Health	MS-LS2-4 MS-ESS3-3		
	Fishable Waters	MS-LS2-1 MS-LS2-4 MS-ESS3-4		
	Watershed Wonders: Helping or Hurting?	MS-LS2-4 MS-LS2-5 MS-ESS2-4 MS-ESS3-3 MS-ESS3-4		

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9-12	Amphibian Advanced Inquiry	HS-LS4-4 HS-LS4-6		<p><i>Collect & Analyze Data</i></p> <p><i>Designing & Evaluating Solutions:</i></p> <ul style="list-style-type: none"> - What are the ecological impacts of our food choices? - How can humans reduce their environmental footprint?
	Aquatic Alien Invasion	HS-LS2-6 HS-LS2-7 HS-LS4-5 HS-LS4-6		
	CSI: Anacostia	HS-LS2-7 HS-LS3-1 HS-LS4-6 HS-ESS3-4		
	Working for Wildlife	HS-LS2-7 HS-LS4-6 HS-ESS3-4		