

6th Grade Science ILOs		Stream Side Science Activity															
Intended Learning Outcome		Where's the Water?	What's in the Water?	Who Lives in the Water?	Missing Macroinvertebrates	Wetland VS Stream Macros	Riparian Review	Nitrogen Cycle	When Things Heat Up	Aquatic Invasion!	That's Predictable!	Water Management	Biodiversity Debate	A Drop in the Bucket	The Incredible Journey	Water Cycle Relay Race	Water Cycle Drama
		Use Science Process and Thinking Skills	1a	X	X	X	X	X	X	X	X				X	X	
1b			X	X	X	X			X								
1c	X		X				X						X				
1d	X		X	X	X	X	X	X	X		X	X	X	X	X		
1e			X	X	X	X	X										
1f																	
1g			X	X	X			X	X	X	X						
1h						X			X		X						
1i			X	X	X	X	X		X		X						
Manifest Science Attitudes and Interests	2a	X	X	X	X	X	X	X	X	X			X	X	X	X	
	2b																
	2c	X	X						X		X	X	X	X	X	X	
	2d					X					X	X					
	2e		X	X	X	X			X								
	2f					X					X						
Understand Science Concepts and Principles	3a																
	3b																
	3c									X							
Communicate Effectively Using Science Language and Reasoning	4a	X	X	X	X	X	X		X				X				
	4b	X	X	X	X	X				X			X				
	4c		X							X				X	X		
	4d									X	X	X					
	4e		X														
Demonstrate Awareness of Social and Historical Aspects of Science	5a					X			X	X	X	X					
	5b					X	X										
Understand the Nature of Science	6a										X						
	6b		X		X	X	X			X							
	6c			X	X	X		X	X	X							

6th Grade Math		Stream Side Science Activity											
Domain	Standard	Where's the Water?	What's in the Water?	Who lives in the Water?	Missing Macroinvertebrates	Wetland VS Stream Macrobs	Riparian Review	Nitrogen Cycle	When Things Heat Up	Aquatic Invasion!	That's Predictable	Water Management	Biodiversity Debate
Ratios and Proportional Relationships	1-2	No Correlations											
	3a-b	No Correlations											
	3c					X							
	3d	No Correlations											
Number System		No Correlations											
Expressions and Eqations		No Correlations											
Geometry		No Correlations											
Statistics and Probablility	1-4	No Correlations											
	5a		X	X	X	X							
	5b	X				X							
	5c-d	No Correlations											



7th Grade Math		Stream Side Science Activity											
Domain	Standard	Where's the Water?	What's in the Water?	Who lives in the Water?	Missing Macroinvertebrates	Wetland VS Stream Macros	Riparian Review	Nitrogen Cycle	When Things Heat Up	Aquatic Invasion!	That's Predictable	Water Management	Biodiversity Debate
Ratios and Proportional Relationships		No Correlations											
Number System	1	No Correlations											
	2	No Correlations											
	3			X	X	X							
Expressions and Equations		No Correlations											
Geometry		No Correlations											
Statistics and Probability	1		X	X	X	X							
	2		X	X	X	X							
	3-8	No Correlations											



8th Grade Standard			Stream Side Science Activity											
Standard	Objective	Indicator												
			<i>Where's the Water?</i>	<i>What's in the Water?</i>	<i>Who lives in the Water?</i>	<i>Missing Macroinvertebrates</i>	<i>Wetland VS Stream Macros</i>	<i>Riparian Review</i>	<i>Nitrogen Cycle</i>	<i>When Things Heat Up</i>	<i>Aquatic Invasion!</i>	<i>That's Predictable!</i>	<i>Water Management</i>	<i>Biodiversity Debate</i>
Standard I	Objective 1. Describe chemical and physical properties of various substances.	I-1a		X					X	X				
		I-1b		X					X	X				
		I-1c												
	Objective 2. Observe and evaluate evidence of chemical and physical change.	I-2a												
		I-2b												
		I-2c		X					X	X				
		I-2d												
	Objective 3.	I-3	No Correlations											
	Objective 4. Identify observable features of chemical reactions.	I-4a												
		I-4b						X						
I-4c									X					
I-4d									X					
I-4e							X							
Standard II	Objective 1.	II-1	No Correlations											
	Objective 2. Generalize the dependent relationships between organisms	II-2a												
		II-2b												
		II-2c						X		X				
		II-2d												
	Objective 3. human influence on the capacity of an environment to sustain living things.	II-3a									X	X		X
		II-3b												X
		II-3c										X		X
II-3d													X	
III		No Correlations												
IV		No Correlations												

8th Grade Math		Stream Side Science Activities											
Domain	Standards	<i>Where's the Water?</i>	<i>What's in the Water?</i>	<i>Who Lives in the Water?</i>	<i>Missing Macroinvertebrates</i>	<i>Wetland VS Stream Macros</i>	<i>Riparian Review</i>	<i>Nitrogen Cycle</i>	<i>When Things Heat Up</i>	<i>Aquatic Invasion!</i>	<i>That's Predictable</i>	<i>Water Management</i>	<i>Biodiversity Debate</i>
The Number System		No Correlations											
Expressions and Equations		X							X				
Functions		No Correlations											
Geometry		No Correlations											
Statistics and Probability		No Correlations											

Earth Systems Science		Stream Side Science Activities													
Standards	Objectives	Indicators	Where's the Water?	What's in the Water?	Who Lives in the Water?	Missing Macroinvertebrates	Wetland VS Stream Macros	Riparian Review	Nitrogen Cycle	When Things Heat Up	Aquatic Invasion!	That's Predictable	Water Management	Biodiversity Debate	
<b>I</b>			No Correlations												
<b>II</b>			No Correlations												
<b>III</b>			No Correlations												
<b>Standard IV</b>	Objective 1. Characterize the water cycle in terms of its reservoirs, water movement among reservoirs and how water has been recycled throughout time.	IV-1a	X												
		IV-1b	No Correlations												
		IV-1c	No Correlations												
	Objective 2. Analyze the characteristics and importance of freshwater found on Earth's surface and its effect on living systems.	IV-2a	No Correlations												
		IV-2b		X	X	X	X	X	X	X	X	X			
		IV-2c		X	X	X	X	X	X			X		X	
		IV-2d									X	X	X		
Objective 3.	IV-3	No Correlations													
<b>V</b>			No Correlations												





Biology		Stream Side Science Activity															
Standard	Objective	Indicator	<i>Where's the Water?</i> <i>What's in the Water?</i> <i>Who Lives in the Water?</i> <i>Missing Macroinvertebrates</i> <i>Wetland VS. Stream Macros</i> <i>Riparian Review</i> <i>Nitrogen Cycle</i> <i>When Things Heat Up</i> <i>Aquatic Invasion!</i> <i>That's Predictable</i> <i>Water Management</i> <i>Biodiversity Debate</i>														
			Standard I	Objective 1.	I-1	No Correlations											
Objective 2. Explain relationships between matter cycles and organisms.	I-2a									X							
	I-2b			X												X	
	I-2c																
	I-2d												X	X	X		
Objective 3. Describe how interactions among organisms and their environment help shape ecosystems.	I-3a																
	I-3b									X		X					
	I-3c				X	X	X	X	X	X	X	X	X				
	I-3d				X	X	X	X	X	X	X	X	X			X	
	I-3e										X	X	X	X	X	X	
II		No Correlations															
III		No Correlations															
IV		No Correlations															
V		No Correlations															

Chemistry		Stream Side Science Activity																						
Standard	Objective	Indicator	<i>Where's the Water?</i> <i>What's in the Water?</i> <i>Who Lives in the Water?</i> <i>Missing Macroinvertebrates</i> <i>Wetland VS Stream Macros</i> <i>Riparian Review</i> <i>Nitrogen Cycle</i> <i>When Things Heat Up</i> <i>Aquatic Invasion!</i> <i>That's Predictable</i> <i>Water Management</i> <i>Biodiversity Debate</i>																					
			I			No Correlation																		
II			No Correlation																					
III			No Correlation																					
IV			No Correlation																					
V			No Correlation																					
Standard VI	Objective 1. Describe factors affecting the process of dissolving and evaluate the effects that changes in concentration have on solutions.	VI-1a																						
		VI-1b																						
		VI-1c																						
		VI-1d																						
		VI-1e			X						X	X												
	Objective 2		No Correlation																					
Objective 3		No Correlation																						

Utah Studies		Stream Side Science Activity													
Standard	Objective	Indicator	<i>Where's the Water?</i>	<i>What's in the Water?</i>	<i>Who Lives in the Water?</i>	<i>Missing Macroinvertebrates</i>	<i>Wetland VS Stream Macros</i>	<i>Riparian Review</i>	<i>Nitrogen Cycle</i>	<i>When Things Heat Up</i>	<i>Aquatic Invasion!</i>	<i>That's Predictable</i>	<i>Water Management</i>	<i>Biodiversity Debate</i>	
Standard I		I-1	No Correlations												
		I-2	No Correlations												
	Asses how natural resources sustain and enhance people's lives.	I-3a		X								X	X	X	
		I-3b											X		
		I-3c											X		
		I-3d									X	X	X		
	I-4	No Correlations													
II		No Correlations													
III		No Correlations													
IV		No Correlations													
V		No Correlations													

9-12 Math			Stream Side Science Activities											
Conceptual Category	Domain	Standards	Where's the Water?	What's in the Water??	Who Lives in the Water?	Missing Macroinvertebrates	Wetland 'Ys Stream Macrocs	Riparian Review	Nitrogen Cycle	When Things Heat Up	Aquatic Invasion!	That's Predictable	Water Management	Biodiversity Debate
Number and Quantity			No Correlations											
Algebra			No Correlations											
Functions			No Correlations											
Modeling			No Correlations											
Geometry			No Correlations											
Statistics and Probability	Making Inferences and Justifying Conclusions	1	X	X	X	X								
		2-3	No Correlations											
		4					X							
		5	No Correlations											
	Conditional Probability and the Rules of Probability	1						X						
		2-9	No Correlations											

Geography for Life		Stream Side Science Activity													
Standard	Objective	Indicator	<i>Where's the Water?</i>	<i>What's in the Water?</i>	<i>Who lives in the Water?</i>	<i>Missing Macroinvertebrates</i>	<i>Wetland VS Stream Macros</i>	<i>Riparian Review</i>	<i>Nitrogen Cycle</i>	<i>When Things Heat Up</i>	<i>Aquatic Invasion!</i>	<i>That's Predictable</i>	<i>Water Management</i>	<i>Biodiversity Debate</i>	
I			No Correlations												
Standard II	Interpret place by its human and physical characteristics.	II-1a											X	X	
		II-1b	X	X	X	X	X	X			X				
		II-1c													
		II-2	No Correlations												
	II-3	No Correlations													
III			No Correlations												
IV			No Correlations												
Standard V	Explore how humans change the environment and how the environment changes humans.	V-1a													
		V-1b													
		V-1c													
		V-1d										X	X	X	
	Assess the importance of natural and human resources	V-2a												X	
		V-2b	X												
		V-2c											X		
		V-2d													
VI			No Correlations												

NR Science I		Stream Side Science Activity											
Standard	Objective	Indicator											
			<i>Where's the Water?</i>	<i>What's in the Water?</i>	<i>Who Lives in the Water?</i>	<i>Missing Macroinvertebrates</i>	<i>Wetland VS Stream Macros</i>	<i>Riparian Review</i>	<i>Nitrogen Cycle</i>	<i>When Things Heat Up</i>	<i>Aquatic Invasion!</i>	<i>That's Predictable</i>	<i>Water Management</i>
<b>I</b>			No Correlations										
<b>II</b>			No Correlations										
<b>Standard III</b>	Objective 1. Discuss the basics of natural resource science management.	III-1a	No Correlations										
		III-1b										X	
		III-1c	No Correlations										
		III-1d							X				
	Objective 2. Examine the relationship between natural resources and society, including the conflict management.	III-2a-b	No Correlations										
		III-2c									X	X	
		III-2d	No Correlations										
		III-2e										X	
	III-2f									X			
Objective 3.	III-3	No Correlations											
<b>Standard IV</b>	Objective 1. Examine ecology.	IV-1a-d	No Correlations										
		IV-1e											X
		IV-1f	No Correlations										
		IV-1g			X	X	X						
		IV-1h											
		IV-1i											
		IV-1j											
	Objective 2.		No Correlations										
	Objective 3. Examine hydrology principles.	IV-3a-g	No Correlations										
		IV-3h			X				X	X			
	IV-4	No Correlations											
<b>IV</b>			No Correlations										
<b>V</b>			No Correlations										

NR Science II		Stream Side Science Activity												
Standard	Objective	Indicator	<i>Where's the Water?</i> <i>What's in the Water?</i> <i>Who Lives in the Water?</i> <i>Missing Macroinvertebrates</i> <i>Wetland VS Stream Macros</i> <i>Riparian Review</i> <i>Nitrogen Cycle</i> <i>When Things Heat Up</i> <i>Aquatic Invasion!</i> <i>That's Predictable</i> <i>Water Management</i> <i>Biodiversity Debate</i>											
			I			No Correlations								
II			No Correlations											
Standard III	Objective 1. Communicate natural resource information to the public.	III-1a	No Correlations											
		III-1b												X
		III-1c	No Correlations											
		III-1d										X	X	
		III-1e											X	X
		III-1f									X			
		III-1g											X	X
Standard IV	Objective 1. Identify and evaluate natural resources.	IV-1a		X	X	X	X	X			X	X		X
		IV-1b										X		X
	Objective 2. Examine the relationship between natural resource and society, including conflict management.	IV-2a	No Correlations											
		IV-2b											X	X
		IV-2c	No Correlations											
		IV-2d	No Correlations											
		IV-2e												X
IV-2f	No Correlations													
Objective 3.		No Correlations												
Standard V	Objective 1.	V-1	No Correlations											
		V-2a	No Correlations											
	Objective 2. Relate the function of watersheds and water resources to natural resources.	V-2b											X	
		V-2c									X	X	X	
		V-2d	No Correlations											
		V-2e		X	X									
		V-2f			X				X	X				
		V-2g	No Correlations											
		V-2h					X							
	V-2i	No Correlations												
	Objective 3. Analyze wildlife/aquatic resources and management.	V-3a-d	No Correlations											
		V-3e			X	X	X	X	X			X		
	V-3f-g	No Correlations												
	Objective 4	V-4	No Correlations											
Objective 5	V-5	No Correlations												
Objective 6	V-6	No Correlations												
Objective 7	V-7	No Correlations												
VI			No Correlations											