

Classroom Activities

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NOTE: Cultural awareness activity in the SSSP & Connecting Cultures section of this guide.

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Explore the World with Shorebirds! Activities by Subjects Index

Activity Unit	Shorebird Topic	Page Number	Subjects								
			Science	Language Arts	Fine Arts	Geography	Social Studies	History	Physical Ed.	Math	Technology
Lower Elementary											
Build a Shorebird	Adaptations		■				▲	■			
What Can I Eat with This Beak?	Adaptations		■	▲	▲					■	
Shorebird Food Webs	Habitat		■				▲				
Wetland Metaphors	Habitat		■	■			▲				
Can't We Share?	Habitat		■				▲				
Migration Headache	Migration		■						■	■	▲
Colorful Changes	Nesting and breeding		■		■						
Guard Your Nest	Nesting and breeding		■		■		▲				
Behave Yourself!	Nesting and breeding		■		■				■		
Musical Nests	Nesting and breeding		■						■	■	
Shorebirds on the Web	Research and technology		■	■			■				■
Shorebird Wax Museum	The big shorebird picture		■	■	■						▲
Map and Miles Study	Pre-field trip activity					■				■	
Using Field Guides and Binoculars	Pre-field trip activity		■								
Making Sampling Equipment	Pre-field trip activity		■	■							
Shorebird Field Study	On-site field trip activity		■	■	▲						■
Cast a Track	On-site field trip activity		■		■						
Mud Creatures Study	On-site field trip activity		■							■	
Sharing Circle	Post-field trip activity		■	■	▲						
Peeps and Predators	Assessment activity		■						■		
Wild Spellers	Assessment activity		■	■							
Upper Elem. / Middle School											
Increasing Cultural Awareness	SSSP & Cultural Connections			■	▲	■	■				
Get to Know the Shorebirds	Introduction to shorebirds		■	■	■		▲				
Shorebird Profiles	Introduction to shorebirds		■	■	▲	▲	▲				
What Can I Eat with This Beak?	Adaptations		■	▲	▲					■	

▲ Denotes that the subject is addressed in the unit's additional activities



Explore the World with Shorebirds! Activities by Subjects Index

Activity Unit	Shorebird Topic	Page Number	Subjects								
			Science	Language Arts	Fine Arts	Geography	Social Studies	History	Physical Ed.	Math	Technology
Upper Elem. / Middle School											
Wetland Metaphors	Habitat		■	■			▲				
Match the Habitat Cards	Habitat		■	■	▲						
Types of Habitat	Habitat		■	■	■	■					
Shorebird Food Webs	Habitat		■								
Migration Headache	Migration		■			▲	▲		■	■	▲
Migration Math Madness	Migration		■			■				■	
The Incredible Journey	Migration		■			■	■	■	■	■	▲
Guard Your Nest	Nesting and breeding		■		■		▲				
Colorful Changes	Nesting and breeding		■		■						
It's a Tough Life!	Nesting and breeding		■	▲					■		
Bird Beans	Research and technology		■							■	
Banded Birds	Research and technology		■							■	
Shorebirds on the Web	Research and technology		■	■		■					■
Shorebirds on Display	The big shorebird picture		■	■	■						
Shorebird Fair	The big shorebird picture		■	■	■						
Shorebird Decision Dilemmas	The big shorebird picture		■	■			■				
Shorebird Poetry	The big shorebird picture		■	■							■
Map and Miles Study	Pre-field trip activity					■				■	
Using Field Guides and Binoculars	Pre-field trip activity		■								
Making Sampling Equipment	Pre-field trip activity		■	■							
Birding Code of Ethics	Pre-field trip activity		■		■						
Shorebird Field Study	On-site field trip activity		■	■	▲						■
Cast a Track	On-site field trip activity		■		■						
Mud Creatures Study	On-site field trip activity		■							■	
Sharing Circle	Post-field trip activity		■	■	▲						
Data Analysis	Post-field trip activity		■							■	
Shorebird Jeo-Bird-Y	Assessment activity		■			■	▲				
Peeps and Predators	Assessment activity		■						■		
Shorebird Bubble or Concept Map	Assessment activity		■	■	▲		▲		■		

▲ Denotes that the subject is addressed in the unit's additional activities

Explore the World with Shorebirds! Activities by Subjects Index

Activity Unit	Shorebird Topic	Page Number	Subjects								
			Science	Language Arts	Fine Arts	Geography	Social Studies	History	Physical Ed.	Math	Technology
Upper Elem. / Middle School											
Shorebird Speeches & Listening Tests	Assessment activity		■	■			▲				■
Upper Middle / High School											
Increasing Cultural Awareness	SSSP & Cultural Connections			■	▲	■	■				
Shorebird Profiles	Introduction to shorebirds		■	■	▲	▲	▲				
A Year in My Life as a Shorebird	Introduction to shorebirds		■	■		■	▲				
Most Wanted: Shorebirds	Introduction to shorebirds		■	■	■	■	■				
Avian Olympics	Adaptations		■						■	■	
Map Your Habitats	Habitat		■	▲		■	▲				
When the Grass Was Greener	Habitat		■	■			■			▲	
Bird's-eye View	Migration		■	▲	■	■					▲
Precarious Paths	Migration		■	■	▲	■					
Colorful Changes	Nesting and breeding		■		■						
Shorebird Bubble Map	Nesting and breeding		■	■	▲						
You Be the Scientist	Research and technology		■	■			▲				
Imaginary Mist Nets	Research and technology		■	■			▲			■	
Shorebirds on the Web	Research and technology		■	■						■	■
Shorebird Values on the Line	The big shorebird picture		■	■			■				
Shorebird Decision Dilemmas	The big shorebird picture		■	■			■				
What You Can Do for Shorebirds!	The big shorebird picture		■	■			■				
Shorebird News	The big shorebird picture		■	■			▲				■
Shorebird Poetry	The big shorebird picture		■	■							■
Shorebird Fair	The big shorebird picture		■	■	■						■
Shorebirds on Display	The big shorebird picture		■	■	■		▲				
Birding Code of Ethics	Pre-field trip activity		■		■					■	
Shorebird Field Study	On-site field trip activity		■	■	▲						■
Sampling Local Shorebird Populations	On-site field trip activity		■							■	■
Cast a Track	On-site field trip activity		■		■					■	
Mud Creatures Study	On-site field trip activity		■							■	
Data Analysis	Post-field trip activity		■							■	
Shorebird Speeches and Listening Tests	Assessment activity		■	■			▲			■	
Sharing Circle	Assessment activity		■	■	▲						
Shorebird Jeo-Bird-Y	Assessment activity		■			■	▲	▲			
Shorebird Bubble/Concept Map	Assessment activity		■	■	▲		▲				

▲ Denotes that the subject is addressed in the unit's additional activities



Explore the World with Shorebirds! Activities by Skills Index

Activity Unit	Shorebird Topic	Page Number	Skills													
			Application	Collecting / Interpreting Data	Comparison	Communication / Presentation	Critical Thinking	Forming Hypotheses	Observing	Predicting	Problem Solving	Spelling / Vocab.	Discussion / Evaluation	Team Building	Visualization	Using Technology
Lower Elementary																
Build a Shorebird	Adaptations				■							■	■		■	
What Can I Eat with This Beak?	Adaptations			■	■						■	■	■		■	
Shorebird Food Webs	Habitat						■			■	■	■	■			
Wetland Metaphors	Habitat		■			■						■	■	■	■	
Can't We Share?	Habitat			■		■		■	■			■	■			
Migration Headache	Migration			■	■				■			■	■			▲
Colorful Changes	Nesting and breeding					■			■						■	
Guard Your Nest	Nesting and breeding					■	■		■	■	■	■	■			
Behave Yourself!	Nesting and breeding		■		■	■			■							
Musical Nests	Nesting and breeding			■								■	■			
Shorebirds on the Web	Research and technology			■		■										■
Shorebird Wax Museum	The big shorebird picture					■										▲
Map and Miles Study	Pre-field trip activity		■	■			■						■			
Using Field Guides and Binoculars	Pre-field trip activity				■				■					■		
Making Sampling Equipment	Pre-field trip activity		■			■								■		
Shorebird Field Study	On-site field trip activity		■	■	■				■				■			■
Cast a Track	On-site field trip activity		■		■				■							
Mud Creatures Study	On-site field trip activity		■	■	■		■	■	■				■	■		
Sharing Circle	Post-field trip activity												■		▲	
Peeps and Predators	Assessment activity						■					■		■		
Wild Spellers	Assessment activity											■		■		
Upper Elem. / Middle School																
Increasing Cultural Awareness	SSSP & Connecting Cultures				■	■						■	■	■		
Get to Know the Shorebirds	Introduction to shorebirds					■						■	■	■	■	
Shorebird Profiles	Introduction to shorebirds				■	■	■					■				

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Explore the World with Shorebirds! Activities by Skills Index

Activity Unit	Shorebird Topic	Page Number	Skills													
			Application	Collecting / Interpreting Data	Comparison	Communication / Presentation	Critical Thinking	Forming Hypotheses	Observing	Predicting	Problem Solving	Spelling / Vocab.	Discussion / Evaluation	Team Building	Visualization	Using Technology
Upper Elem. / Middle School																
What Can I Eat with This Beak?	Adaptations			■	■						■	■	■		■	
Wetland Metaphors	Habitat		■			■						■	■	■	■	
Match the Habitat Cards	Habitat						■					■			■	
Types of Habitat	Habitat				■	■	■					■			■	
Shorebird Food Webs	Habitat						■			■	■	■	■			
Migration Headache	Migration			■	■				■			■	■			▲
Migration Math Madness	Migration			■	■											▲
The Incredible Journey	Migration				■		■		■	■		■	■			▲
Guard Your Nest	Nesting and breeding					■	■		■	■	■	■	■			
Colorful Changes	Nesting and breeding					■			■						■	
It's a Tough Life!	Nesting and breeding			■			■					■	■		■	
Bird Beans	Research and technology			■	■		■					■	■			
Banded Birds	Research and technology			■		■		■	■			■	■	■		
Shorebirds on the Web	Research and technology			■		■										■
Shorebirds on Display	The big shorebird picture					■									■	
Shorebird Fair	The big shorebird picture					■									■	
Shorebird Decision Dilemmas	The big shorebird picture		■			■	■				■		■	■		
Shorebird Poetry	The big shorebird picture		■			■	■					■				■
Map and Miles Study	Pre-field trip activity		■	■			■						■			
Using Field Guides and Binoculars	Pre-field trip activity				■				■						■	
Making Sampling Equipment	Pre-field trip activity		■			■									■	
Birding Code of Ethics	Pre-field trip activity				■	■	■		■				■			
Shorebird Field Study	On-site field trip activity		■	■	■				■				■			■
Cast a Track	On-site field trip activity		■		■				■							
Mud Creatures Studies	On-site field trip activity		■	■	■		■	■	■				■	■		
Sharing Circle	Post-field trip activity												■		■	
Data Analysis	Post-field trip activity			■			■						■			

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Explore the World with Shorebirds! Activities by Skills Index

Activity Unit	Shorebird Topic	Page Number	Skills													
			Application	Collecting / Interpreting Data	Comparison	Communication / Presentation	Critical Thinking	Forming Hypotheses	Observing	Predicting	Problem Solving	Spelling / Vocab.	Discussion / Evaluation	Team Building	Visualization	Using Technology
Upper Elem. / Middle School																
Shorebird Bubble / Concept Map	Assessment activity					■	■					■	■			
Peeps and Predators	Assessment activity						■							■		
Shorebird Speeches & Listening Tests	Assessment activity			■		■										
Upper Middle / High School																
Increasing Cultural Awareness	SSSP & Connecting Cultures				■	■						■	■	■		
Shorebird Profiles	Introduction to shorebirds				■	■	■					■				
A Year in My Life as a Shorebird	Introduction to shorebirds		■	■		■						■			■	
Most Wanted: Shorebirds	Introduction to shorebirds					■	■					■	■	■	■	
Avian Olympics	Adaptations			■	■							■	■	■		
Map Your Habitats	Habitat			■				■	■			■	■			
When the Grass Was Greener	Habitat						■					■	■		■	
Bird's-eye View	Migration					■						■	■		■	▲
Precarious Paths	Migration			■	■	■	■					■	■			
Colorful Changes	Nesting and breeding					■			■						■	
Shorebird Bubble Map	Nesting and breeding					■						■	■		■	
You Be the Scientist	Research and technology					■	■	■				■	■	■		
Imaginary Mist Nets	Research and technology			■		■		■				■	■			
Shorebirds on the Web	Research and technology			■		■										■
Shorebird Values on the Line	The big shorebird picture				■		■					■	■			
Shorebird Decision Dilemmas	The big shorebird picture		■			■	■			■			■	■		
What You Can Do for Shorebirds!	The big shorebird picture		■			■			■	■	■	■	■	■		
Shorebird News	The big shorebird picture		■			■										■
Shorebird Poetry	The big shorebird picture		■			■	■					■				■
Shorebird Fair	The big shorebird picture					■								■		■
Shorebirds on Display	The big shorebird picture					■								■		
Shorebird Jeo-Bird-Y	Assessment activity					■						■		■		
Birding Code of Ethics	Pre-field trip activity				■	■	■		■				■			

▲ Denotes that the subject is addressed in the unit's additional activities



Explore the World with Shorebirds! Activities by Skills Index

Activity Unit	Shorebird Topic	Page Number	Skills													
			Application	Collecting / Interpreting Data	Comparison	Communication / Presentation	Critical Thinking	Forming Hypotheses	Observing	Predicting	Problem Solving	Spelling / Vocab.	Discussion / Evaluation	Team Building	Visualization	Using Technology
Upper Middle / High School																
Sampling Local Shorebird Populations	On-site field trip activity		■	■	■	■		■	■				■			■
Shorebird Field Study	On-site field trip activity		■	■	■		■		■				■			■
Cast a Track	On-site field trip activity		■		■				■							
Mud Creatures Study	On-site field trip activity		■	■	■		■	■	■				■	■		
Data Analysis	Post-field trip activity			■			■						■			
Shorebird Speeches and Listening Tests	Assessment activity			■		■										
Shorebird Jeo-Bird-Y	Assessment activity					■						■		■		
Shorebird Bubble / Concept Map	Assessment activity					■						■	■		■	
Sharing Circle	Assessment activity												■			

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Explore the World with Shorebirds!

Correlation with National Visual Arts Content Standards

All Grades

<h1>Explore the World with Shorebirds!</h1> <h2>Correlation with National Visual Arts Content Standards</h2> <p><i>All Grades</i></p>			Understanding & Applying media, techniques, & processes.	Using knowledge of structures & functions.	Choosing & evaluating range of subject matter, symbols & ideas.	Understanding visual arts in relation to history & cultures.	Reflecting upon & assessing characteristics & merits of their work & work of others.	Making connections between visual arts & other disciplines.
Activity	Shorebird Topic	Grades						
Get to Know the Shorebirds	introduction to shorebirds	5-8	■	■				■
Shorebird Profiles	introduction to shorebirds	5-8, 9-12	▲	▲				▲
Most Wanted: Shorebirds	introduction to shorebirds	9-12	■	■			■	■
What Can I Eat With This Beak?	adaptations	K-4, 5-8	▲	▲				▲
Types of Habitat	habitat	5-8	■	■	■			■
Match the Habitat Cards	habitat	5-8	▲	▲				▲
Wetland Metaphors	habitat	K-4, 5-8	▲	▲				▲
Bird's Eye View	migration	9-12	■	■	■			■
Precarious Paths	migration	9-12	▲	▲	▲			▲
Colorful Changes	nesting & breeding	K-4, 5-8, 9-12	■	■			■	■
Guard Your Nest	nesting & breeding	K-4, 5-8	■	■			■	■
Shorebird Wax Museum	big shorebird picture	K-4	■	■				■
Shorebird Fair	big shorebird picture	5-8, 9-12			■			■
Shorebirds on Display	big shorebird picture	5-8, 9-12	■	■	■		▲	■
Birding Code of Ethics	pre-fieldtrip activity	5-8, 9-12	■	■	■			■
Shorebird Field Study	on-site fieldtrip activity	All grades	■					■
Cast a Track	on-site fieldtrip activity	All grades	■					■
Sharing Circle	post fieldtrip activity	All grades	▲	▲				▲
Shorebird Bubble or Concept Map	assessment activity	5-8, 9-12	▲	▲	▲			▲

▲ Indicates the standard is addressed in the unit's additional activities

Explore the World with Shorebirds!

Correlation with National English Language Arts Standards

All Grades

			Read texts for understanding of text, themselves, & cultures of the United States & the world.	Apply wide range of strategies to comprehend, interpret, evaluate, & appreciate texts.	Adjust spoken, written, & visual language to communicate effectively with variety of audiences & purposes.	Employ wide range of strategies to communicate effectively with different audiences for different purposes.	Apply knowledge of language structure, conventions, etc. to create, critique, & discuss print & non-print texts.	Research issues, interests; gather, evaluate, & synthesize data.	Use variety of resources to gather & synthesize information & create & communicate knowledge.	Develop understanding & respect for diversity use of language across cultures, ethnic groups, geo. regions & social roles.	English as 2 nd language students; use 1 st language to develop competency in English.	Participate as knowledgeable, reflective, creative, & critical members of variety of literacy communities.	Use spoken, written, & visual language to accomplish own purpose.
Activity Unit	Shorebird Topic	Grades											
Increasing Cultural Awareness	SSSP&ConnectingCultures	5-8, 9-12	■	■	■	■				■		■	
Get to Know the Shorebirds	introduction to shorebirds	5-8	■		■	■	▲	▲	▲			■	■
Shorebird Profiles	introduction to shorebirds	5-8, 9-12	■	■	■	■		■				■	
A Year In My Life As A Shorebird	introduction to shorebirds	9-12	■	■	■		■	■	■			■	■
Most Wanted Shorebirds!	introduction to shorebirds	9-12	■		■				■			■	■
What Can I Eat With This Beak?	adaptations	K-4, 5-8			▲		▲		▲			▲	▲
Wetland Metaphors	habitat	K-4, 5-8			■	■			▲			■	
Match the Habitat Cards	habitat	5-8	■	■			■	■	■			■	■
Types of Habitat	habitat	5-8	■	■	▲	■	■	■	■			■	■
When the Grass Was Greener	habitat	9-12	■	■	▲	▲	▲	▲	▲			■	▲
Map Your Habitat	habitat	9-12	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Precarious Paths	migration	9-12	■	■			■					■	
Bird's Eye View	migration	9-12				▲	■	■	■			■	▲
It's a Tough Life!	nesting and breeding	5-8	▲	▲			▲	▲	▲			▲	▲
You Be the Scientist	research and technology	9-12	■	■	■	■	■	■	■			■	■
Imaginary Mist Nets	research and technology	9-12	■	■	■	■	■	■	■			■	■
Shorebirds on the Web	research and technology	All grades	■	■	■	■	■	■	■	■	■	■	■
Shorebirds on Display	big shorebird picture	5-8, 9-12			■	■	■		■			■	■

▲ Indicates the standard is addressed in the unit's additional activities

Explore the World with Shorebirds!

Correlation with National English Language Arts Standards

All Grades continued

			Read texts for understanding of text, themselves, & cultures of the United States & the world.	Apply wide range of strategies to comprehend, interpret, evaluate, & appreciate texts.	Adjust spoken, written, & visual language to communicate effectively with variety of audiences & purposes.	Employ wide range of strategies to communicate effectively with different audiences for different purposes.	Apply knowledge of language structure, conventions, etc. to create, critique, & discuss print & non-print texts.	Research issues, interests; gather, evaluate, & synthesize data.	Use variety of resources to gather & synthesize information & create & communicate knowledge.	Develop understanding & respect for diversity use of language across cultures, ethnic groups, geo. regions & social roles.	English as 2nd language students: use 1st language to develop competency in English.	Participate as knowledgeable, reflective, creative, & critical members of variety of literacy communities.	Use spoken, written, & visual language to accomplish own purpose.
Activity Unit	Shorebird Topic	Grades											
Shorebird Fair	big shorebird picture	5-8, 9-12			■	■	■		■			■	■
Shorebird Decision Dilemmas	big shorebird picture	5-8, 9-12	■	■	■							■	■
Shorebird Poetry	big shorebird picture	5-8, 9-12			■	■	■			■		■	■
Shorebird Wax Museum	big shorebird picture	K-4			■	■	▲				■	■	■
Shorebird News	big shorebird picture	9-12					■		■			■	■
What You Can Do For Shorebirds!	big shorebird picture	9-12			■	■	■	■	■	■		■	■
Shorebird Values on the Line	big shorebird picture	9-12			■	■						■	■
Wild Spellers	assessment activity	K-4									■		■
Shorebird Bubble or Concept Map	assessment activity	5-8, 9-12			■	■			■			■	■
Shorebird Speeches & Listening Tests	assessment activity	5-8, 9-12	■	■	■	■	■	■	■			■	■
Making Field Sampling Equipment	pre-fieldtrip activity	K-4, 5-8						■	■			■	■
Shorebird Field Study	on-site fieldtrip activity	All grades			■	■	■	■	■			■	■
Sharing Circle	post-fieldtrip activity	All grades			■							■	■

▲ Indicates the standard is addressed in the unit's additional activities

Explore the World with Shorebirds!

Correlation with National History* and Social Studies Standards

Upper Elementary/Middle School (5-8)

**There is no significant correlation of activities to National History Standards for grades 5-8.*

<div> <h1>Explore the World with Shorebirds!</h1> <h2>Correlation with National History* and Social Studies Standards</h2> <p>Upper Elementary/Middle School (5-8)</p> <p><i>*There is no significant correlation of activities to National History Standards for grades 5-8.</i></p> </div>		Social Studies Standards															
		Culture		People, Places & Environments								Science, Technology & Society			Global Connections		
		Compare similarities & differences in ways groups, societies, & cultures meet human needs & concerns.	Explain why individuals & groups respond differently to physical & social environments &/or changes to them....	Elaborate mental maps of locales, regions, & the world...	Create, interpret, use & distinguish various representations of the earth...	Use appropriate resources, data sources, & geographic tools...	Estimate distance, calculate scale, & distinguish other geographic relationships...	Locate & describe varying landforms & geographic features...	Describe physical system changes like seasons, climate & weather & identify associated geographic patterns.	Observe & speculate about social & economic effects of environmental changes & crises...	Propose, compare, & evaluate alternative uses of land & resources in communities, regions, nations & the world.	Show how science & technology have changed people's perceptions of the social & natural world.	Describe examples where values, beliefs & attitudes were influenced by new scientific & technological knowledge.	Seek reasonable & ethical solutions to problems when scientific advancements conflict with social norms or values.	Explore causes, consequences & possible solutions to global issues such as environmental quality...	Describe & analyze the effects of changing technologies on the global community.	Describe & explain relationships & tensions between nations & global interests in matters like natural resources.
Activity Unit	Shorebird Topic																
Types of Habitat	habitat			■	■	■		■									
Migration Headache	habitat			▲					▲								
Migration Math Madness	migration			■	■	■	■	■									
The Incredible Journey	migration			■	■	■			▲								
Shorebirds on the Web	research and technology	■	■	■	■	■		■	■	■	■	■			■	■	
Map & Miles Study	pre-fieldtrip activity			■	■	■	■	■									
Shorebird Jeo-Bird-Y	assessment activity			■				■	■								
Shorebird Decision Dilemmas	the big shorebird picture		■								■						

Explore the World with Shorebirds!

Correlation with National History and Social Studies Standards

Upper Middle School/High School (9-12)

		History Standards				Social Studies Standards											
		Historical Issues-Analysis & Decision-Making Identify issues & problems in the past. ☒	Evaluate alternative courses of action. ☒	Formulate a position or course of action on a position. ☒	Evaluate the implementation of a decision. ☒	Culture		People, Places & Environments							Science, Technology & Society	Global Connections	
						Analyze & explain the ways groups, societies, and cultures address human needs & concerns.	Compare & analyze societal patterns for preserving & transmitting culture while adapting to environmental or social change.	Refine mental maps of locals, regions, & the world that demonstrate understanding of relative location, direction, size, and shape.	Create, interpret, use & synthesize information form various representations of the earth...	Use appropriate resources, data sources, & geographic tools to generate & manipulate, & interpret information.	Calculate distance, scale, area & density & distinguish spatial distribution patterns.	Describe, differentiate, & explain relationships among various regional & global patterns of geographic phenomena.	Use of knowledge of physical system changes such as seasons, climate & weather, & water cycle to explain geographic phenomena.	Propose, compare, & evaluate alternative policies for the use of land & other resources....	Analyze how science & technology influence the core values, beliefs, & attitudes of society, & how core values, beliefs, and attitudes of society shape scientific & technological change.	Analyze & evaluate the effects of changing technologies on the global community.	Analyze the causes, consequences, & possible solutions to persistent, contemporary, & emerging global issues such as environmental quality.
Activity Unit	Shorebird Topic																
Increasing Cultural Awareness	SSSP & Cultural Connections					■	■	■							■		
Shorebird Profiles	introduction to shorebirds							▲	▲	▲			▲				
A Year In My Life As A Shorebird	introduction to shorebirds							■	■	■			■				
Most Wanted: Shorebirds	introduction to shorebirds							■				■	■				
Map Your Habitats	habitat							■	■	■							
When the Grass Was Greener	habitat	■	■	■	■			■					■	■			
Bird's Eye View	migration							■	■			■	■				
Precarious Paths	migration							■	▲	■	■	■					
Shorebirds on the Web	research and technology					■	■	■	■	■		■	■		■	■	
Shorebird Values on the Line	big shorebird picture	■	■	■		■								■	■		■
Shorebird Decision Dilemmas	big shorebird picture	■	■	■	■									■			
What You Can Do For Shorebirds!	big shorebird picture			■	■									■			
Shorebird Jeo-Bird-Y	assessment activity	▲						■				■	■				

▲ Indicates the standard is addressed in the unit's additional activities

Explore the World with Shorebirds!

Correlation with National Science Content Standards

Lower Elementary
(K-4)

Explore the World with Shorebirds!		Unifying Concepts & Processes					Science as Inquiry		Life Science			Science & Technology			Science in Personal & Social Perspectives					History & Nature of Science
		Systems, order & organization	Evidence, models & explanation	Change, consistency & measurement	Evolution & equilibrium	Form & function	Abilities to do scientific inquiry	Understanding scientific inquiry	Characteristics of organisms	Life Cycles of organisms	Organisms and environments	Abilities of Technological design	Understanding science and technology	Distinguish natural and human objects	Personal health	Characteristics & changes in pop.	Types of resources	Changes in environments	Science & tech. In local challenges	Science as human endeavor
Activity Unit	Shorebird Topic																			
Build A Shorebird	adaptations		■		■	■			■	■	■									
What Can I Eat With This Beak?	adaptations		■	■		■	■	■	■		■									
Shorebird Food Webs	habitat	■	■	■	■						■					■	■	■		
Wetland Metaphors	habitat	■									■				■		■			
Can't We Share?	habitat	■	■	■																
Migration Headache	migration	■	■	■		■	■	■	■	■	■					■		■		
Colorful Changes	nesting and breeding			■		■	■		■	■	■									
Guard Your Nest	nesting and breeding					■	■	■	■	■	■									
Behave Yourself!	nesting and breeding					■			■	■										
Musical Nests	nesting and breeding		■	■					■	■	■									
Shorebirds on the Web	research and technology	■	■	■			■	■	■	■	■	■	■			■		■	■	■
Using Field Guides & Binoculars	pre-fieldtrip activity								■		■			■						■
Making Field Sampling Equipment	pre-fieldtrip activity											■								■
Shorebird Field Study	on-site fieldtrip activity	■				■	■	■	■	■	■			■						■
Cast a Track	on-site fieldtrip activity		■			■			■		■									■
Mud Creatures Study	post fieldtrip activity	■	■	■		■	■	■	■		■	■		■		■				■
Sharing Circle	post fieldtrip activity		■			■			■		■									■
Shorebird Wax Museum	big shorebird picture											▲								
Peeps and Predators	assessment activity																			
Wild Spellers	assessment activity																			

Shading indicates that the activity may touch on any number of science topics.

▲ Indicates the standard is addressed in the unit's additional activities

<div>Explore the World with Shorebirds!</div> <div>Correlation with National Science Standards</div> <div>Upper Elementary/Middle School (5-8)</div>		Unifying Concepts & Processes					Science as Inquiry		Life Science					Science & Technology			Science in Personal & Social Perspectives					History & Nature of Science	
		Systems, order & organization	Evidence, models & explanation	Change, consistency & measurement	Evolution & equilibrium	Form & function	Abilities to do scientific inquiry	Understanding scientific inquiry	Structure & function in living systems	Reproduction & heredity	Regulation & behavior	Populations & ecosystems	Diversity & adaptations of organisms	Abilities of Technological design	Understanding science and technology	Distinguish natural and human objects	Personal health	Pop. , resources, environments	Natural hazards	Risks & benefits	Science & tech. In society	Science as human endeavor	Nature of science
Activity Unit	Shorebird Topic																						
Increasing Cultural Awareness	SSSP & Connecting Culutres																	■				■	
Get to Know the Shorebirds	introduction to shorebirds	■				■	▲		■	■	■	■	■					■	■				
Shorebird Profiles	introduction to shorebirds					■			■	■	■	■	■					■	■				
What Can I Eat With This Beak?	adaptations		■	■		■	■		■				■										
Shorebird Food Webs	habitat	■	■	■	■				■			■						■					
Wetland Metaphors	habitat																						
Match the Habitat Cards	habitat	■		■		■			■			■	■					■	■				
Types of Habitat	habitat	■	■	■		▲			■			■	■										
Migration Headache	migration	■	■	■		■			■	■	■	■	■					■	■				
Migration Math Madness	migration	■	■	■						■	■	■	■										
The Incredible Journey	migration	■	■	■		■	▲		■	■	■	■	■						■				
Colorful Changes	nesting and breeding			■		■	■			■		■	■						■				
Guard Your Nest	nesting and breeding					■	■	■		■	■	■	■						■				
It's a Tough Life	nesting and breeding	■	■			■			■	■	■	■	■			■		■	■				
Banded Birds	research & technology	■	■	■			■	■	■		■	■		■	■	■		■	■			■	■
Shorebirds on the Web	research & technology	■	■	■			■	■				■		■	■			■				■	■
Bird Beans	research & technology	■	■	■			■				■	■				■		■				■	■
Shorebird Fair	big shorebird picture	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Shorebird Decision Dilemmas	big shorebird picture	■				■	■		■		■	■	■			■		■	■			■	■

Shading indicates that the activity may touch on any number of science topics.

▲ Indicates the standard is addressed in the unit's additional activities

Explore the World with Shorebirds!

Correlation with National Science Standards

Upper Elementary / Middle School
(5-8) continued

<div>Explore the World with Shorebirds!</div> <div>Correlation with National Science Standards</div> <div>Upper Elementary / Middle School (5-8) continued</div>		Unifying Concepts & Processes					Science as Inquiry		Life Science					Science & Technology			Science in Personal & Social Perspectives					History & Nature of Science	
		Systems, order & organization	Evidence, models & explanation	Change, consistency & measurement	Evolution & equilibrium	Form & function	Abilities to do scientific inquiry	Understanding scientific inquiry	Structure & function in living systems	Reproduction & heredity	Regulation & behavior	Populations & ecosystems	Diversity & adaptations of organisms	Abilities of Technological design	Understanding science and technology	Distinguish natural and human objects	Personal health	Pop. , resources, environments	Natural hazards	Risks & benefits	Science & tech. In society	Science as human endeavor	Nature of science
Activity Unit	Shorebird Topic																						
Shorebird Poetry	big shorebird picture																						
Shorebirds on Display	big shorebird picture																						
Using Field Guides & Binoculars	pre-fieldtrip activity										■				■						■		
Making Field Sampling Equipment	pre-fieldtrip activity						■		▲					■							■		
Birding Code of Ethics	pre-fieldtrip activity	■	■							■	■							■					
Shorebird Field Study	on-site fieldtrip activity	■				■	■		■		■	■	■								■		
Cast A Track	on-site fieldtrip activity		■			■			■				■			■					■		
Mud Creatures Study	on-site fieldtrip activity	■	■	■		■	■	■	■			■	■	■		■					■	■	
Data Analysis	post-fieldtrip activity	■	■	■			■	■						■							■	■	
Sharing Circle	post-fieldtrip activity																						
Shorebird Bubble or Concept Map	assessment activity																						
Shorebird Jeo-Bird-Y	assessment activity																						
Peeps and Predators	assessment activity																						
Shorebird Speeches & Listening Tests	assessment activity																						

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▲ Indicates the standard is addressed in the unit’s additional activities

<h1>Explore the World with Shorebirds!</h1> <h2>Correlation with National Science Standards</h2> <p><i>Upper Middle School / High School (9-12)</i></p>		Unifying Concepts & Processes					Science as Inquiry		Life Science			Science & Technology		Science in Personal & Social Perspectives						History & Nature of Science		
		Systems, order & organization	Evidence, models & explanation	Change, consistency & measurement	Evolution & equilibrium	Form & function	Abilities to do scientific inquiry	Understanding scientific inquiry	Interdependence of organisms	Matter, energy & organization	Behavior of organisms	Abilities of Technological design	Understanding science and technology	Personal & community health	Population growth	Natural Resources	Environmental quality	Natural & human induced hazards	Science & technology challenges	Science as human endeavor	Nature of scientific knowledge	Historical perspectives
Activity Unit	Shorebird Topic																					
Increasing Cultural Awareness	SSSP & Connecting Cultures															■	■	■		■	■	■
Shorebird Profiles	introduction to shorebirds					■			■		■											
A Year In My Life As A Shorebird	introduction to shorebirds	■				■			■		■					■	■	■				
Most Wanted: Shorebirds	introduction to shorebirds					■			■		■				■			■				
Avian Olympics	adaptations			■		■				■	■											
Map Your Habitats	habitat																					
When the Grass Was Greener	habitat	■	■	■												■	■	■	■			
Bird's Eye View	migration	■				■	■		■		■					■	■	■				
Precarious Paths	migration	■		■		■			■		■					■	■	■	■			
Colorful Changes	nesting and breeding			■		■	■				■											
Imaginary Mist Nets	research & technology	■	■	■		■	■				■		■						■	■	■	
You Be the Scientist	research & technology	■	■	■		■	■				■	■	■						■	■	■	
Shorebirds on the Web	research & technology	■	■	■		■	■	■	■		■	■	■		■	■	■	■	■	■	■	■
Shorebird Values on the Line	big shorebird picture													■	■	■	■	■	■			
Shorebird Decision Dilemmas	big shorebird picture																					
What You Can Do For Shorebirds!	big shorebird picture																		■	■	■	
Shorebirds News	big shorebird picture		▲											▲		▲	▲	▲		■		

Shading indicates that the activity may touch on any number of science topics.

▲ Indicates the standard is addressed in the unit's additional activities

Explore the World with Shorebirds!

Correlation with National Science Standards

Upper Middle School / High School
(9-12) continued

		Unifying Concepts & Processes					Science as Inquiry		Life Science			Science & Technology		Science in Personal & Social Perspectives						History & Nature of Science		
		Systems, order & organization	Evidence, models & explanation	Change, consistency & measurement	Evolution & equilibrium	Form & function	Abilities to do scientific inquiry	Understanding scientific inquiry	Interdependence of organisms	Matter, energy & organization	Behavior of organisms	Abilities of Technological design	Understanding science and technology	Personal & community health	Population growth	Natural Resources	Environmental quality	Natural & human induced hazards	Science & technology challenges	Science as human endeavor	Nature of scientific knowledge	Historical perspectives
Activity Unit	Shorebird Topic																					
Shorebird Poetry	big shorebird picture																					
Shorebird Fair	big shorebird picture																					
Shorebirds on Display	big shorebird picture																					
Birding Code of Ethics	pre-fieldtrip activity	■	■						■		■							■			■	
Shorebird Field Study	on-site fieldtrip activity	■				■	■		■		■				■	■	■	■		■	■	
Cast a Track	on-site fieldtrip activity		■			■														■	■	
Mud Creatures Study	on-site fieldtrip activity	■	■	■		■	■	■	■		■	■					■		■	■	■	
Sampling Local Shorebird Populations	on-site fieldtrip activity	■	■	■			■	■	■	■	■	■	■		■		■	■	■	■	■	
Data Analysis	post fieldtrip activity																					
Sharing Circle	post fieldtrip activity																					
Shorebird Speeches & Listening Tests	assessment activity																					
Shorebird Jeo-Bird-Y	assessment activity																					
Shorebird Bubble Map	assessment activity																					

Shading indicates that the activity may touch on any number of science topics.

▲ Indicates the standard is addressed in the unit's additional activities

Explore the World with Shorebirds!

Correlation with National Math Standards

All Grades

<h1>Explore the World with Shorebirds!</h1> <h2>Correlation with National Math Standards</h2> <h3>All Grades</h3>			Numbers & Operations			Data Analysis & Probability			Measurement		Problem Solving			Communication			Connections			Representation						
			Understand numbers, ways of representing numbers, relationships among numbers, & number systems.			Understand meanings of operations & how they relate to one another.			Compute fluently & make reasonable estimates.			Formulate & answer questions with relevant data.			Select & use appropriate statistical methods to analyze data.			Develop & evaluate inferences & predictions that are based on data.			Understand & apply basic concepts of probability.					
			Units, systems, and processes of measurement.			Apply appropriate techniques, tools, and formulas to determine measurements.			Build new mathematical knowledge through problem solving.			Solve problems that arise in math & in other contexts.			Apply and adapt a variety of appropriate strategies to solve problems.			Organize & consolidate math thinking through communication.								
			Comm. Math thinking coherently & clearly to peers, teachers & others.			Analyze & evaluate math thinking & strategies of others.			Use the lang. of math to express math ideas precisely.			Recognize & use connections among math ideas.			Understand how math ideas interconnect & build on one another.			Recognize & apply math in contexts outside of math.								
			Create & use representations to record, organ., & comm. math ideas.			Select, apply, & translate among math ideas.			Use representations to model & interpret physical, social, & math phenomena.																	
Activity Unit	Shorebird Topic	Grade Level																								
What Can I Eat With this Beak?	adaptations	K-4, 5-8	■			■	■	■							■	■		■	■		■	■		■		
Avian Olympics	adaptations	9-12	■	■	■	■		■		■	■	■			■			■	■	■	■	■	■	▲		
When the Grass Was Greener	habitat	9-12	▲	▲	▲	▲	▲	▲		▲		▲	▲		▲						▲	▲				
Migration Headache	migration	K-4, 5-8	■	■		■		■								■	■		■	■		■		■		
Migration Math Madness	migration	5-8	■	■	■	■				■	■		■			■	■					■		■		
The Incredible Journey	migration	5-8	■	■	■	■		■								■	■		■	■		■		■		

▲ Indicates the standard is addressed in the unit's additional activities

Explore the World with Shorebirds!

Correlation with National Math Standards

All Grades continued

			Numbers & Operations			Data Analysis & Probability				Measurement		Problem Solving			Communication				Connections			Representation		
			Understand numbers, ways of representing numbers, relationships among numbers, & number systems.	Understand meanings of operations & how they relate to one another.	Compute fluently & make reasonable estimates.	Formulate & answer questions with relevant data.	Select & use appropriate statistical methods to analyze data.	Develop & evaluate inferences & predictions that are based on data.	Understand & apply basic concepts of probability.	Units, systems, and processes of measurement.	Apply appropriate techniques, tools, and formulas to determine measurements.	Build new mathematical knowledge through problem solving.	Solve problems that arise in math & in other contexts.	Apply and adapt a variety of appropriate strategies to solve problems.	Organize & consolidate math thinking through comm.	Comm. Math thinking coherently & clearly to peers, teachers & others.	Analyze & evaluate math thinking & strategies of others.	Use the language of math to express math ideas precisely.	Recognize & use connections among math ideas.	Understand how math ideas interconnect & build on one another.	Recognize & apply math in contexts outside of math.	Create & use representations to record, organ., & communicate math ideas.	Select, apply, & translate among math ideas.	Use representations to model & interpret physical, social, & math phenomena.
Activity Unit	Shorebird Topic	Grade Level																						
Musical Nests	nesting & breeding	K-4	■	■		■						■	■		■	■					■	■		■
Bird Beans	research & technology	5-8	■	■	■	■	■	■	■	■	■	■	■						■	■		■	■	■
Banded Birds	research & technology	5-8	■	■	■	■	■	■					■			■	■		■	■		■	■	■
Imaginary Mist Nets	research & technology	9-12	■	■	■	■	■	■	■			■	■	■					■	■	■	■	■	■
Map & Miles Study	pre-fieldtrip activity	All grades	■	■	■	■				■	■	■												

Explore the World with Shorebirds!

Correlation with National Math Standards

All Grades continued

<h1>Explore the World with Shorebirds!</h1> <h2>Correlation with National Math Standards</h2> <p><i>All Grades continued</i></p>			Numbers & Operations			Data Analysis & Probability				Measurement		Problem Solving			Communication			Connections			Representation																												
			Understand numbers, ways of repr. Numbers, relationships among numbers, & number systems			Understand meanings of operations & how they relate to one another.				Compute fluently & make reasonable estimates.		Formulate & answer questions with relevant data.		Select & use appropriate statistical methods to analyze data.		Develop & evaluate inferences & predictions that are based on data.		Understand & apply basic concepts of probability.		Units, systems, and processes of measurement.		Apply appropriate techniques, tools, and formulas to determine measurements.		Build new mathematical knowledge through problem solving.		Solve problems that arise in math & in other contexts.		Apply and adapt a variety of appropriate strategies to solve problems.		Organize & consolidate math thinking through communication.		Comm. Math thinking coherently & clearly to peers, teachers & others.		Analyze & evaluate math thinking & strategies of others.		Use the lang. Of math to express math ideas precisely.		Recognize & use connections among math ideas.		Understand how math ideas interconnect & build on one another.		Recognize & apply math in contexts outside of math.		Create & use representations to record, organ., & communicate math ideas.		Select, apply, & translate among math ideas.		Use representations to model & interpret physical, social, & math phenomena.	

▲ Indicates the standard is addressed in the unit’s additional activities