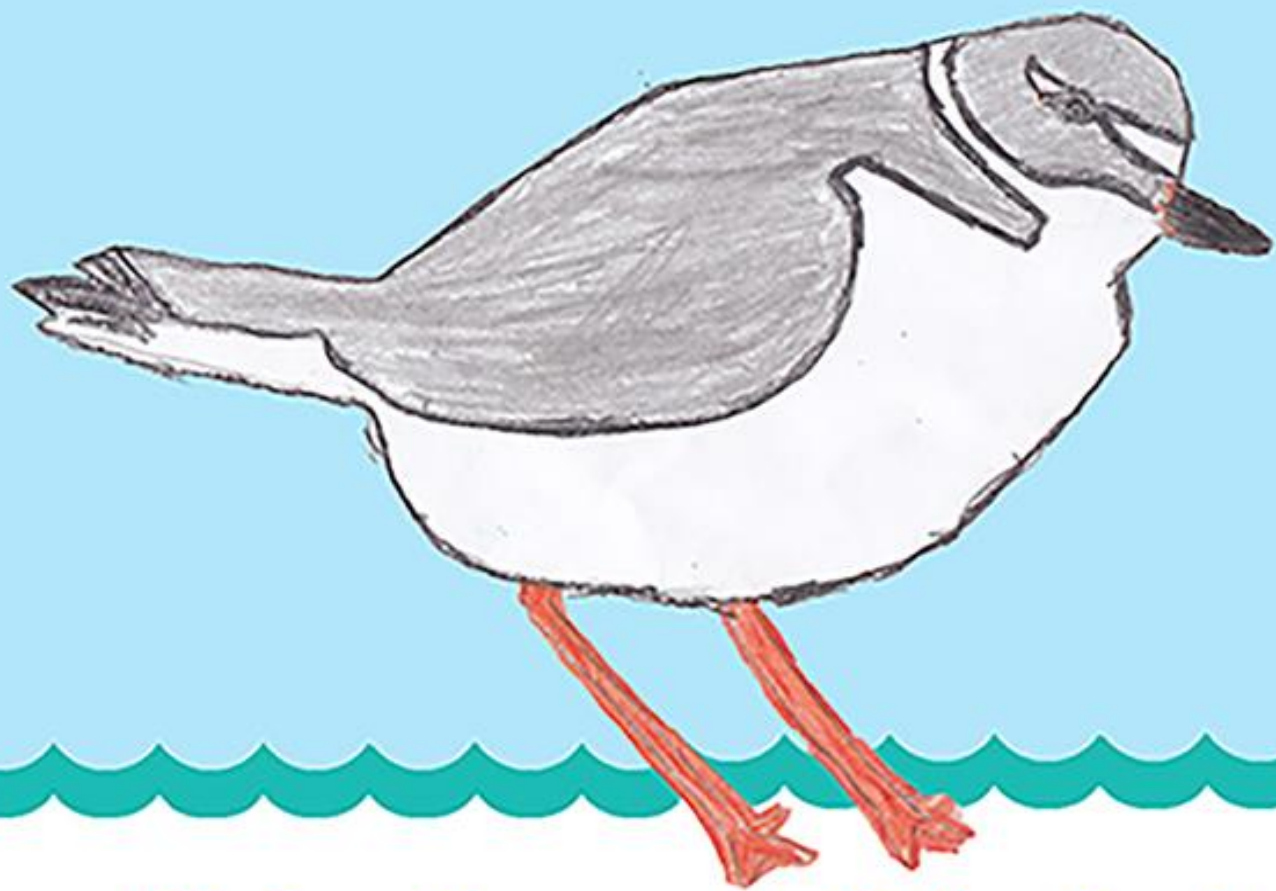


# Plover Power !



Piping Plover Activity Book

Welcome to our Piping Plover Student Activity Book: Plover Power! Fun activities and educational information are provided throughout this booklet for students to explore.



Breeding Piping Plover



Non-Breeding Piping Plover

The Piping Plover is a small sand-colored shorebird that breeds on beaches and shorelines from North Carolina to Maine in the U.S. and Eastern Canada. The Atlantic Coast population spends the fall and winter months on the Southeast Atlantic and Gulf Coasts of the U.S. and the Caribbean, with the majority wintering in The Bahamas. Once more common throughout their range, Piping Plovers are currently listed as threatened or endangered in the U.S., Canada, and many individual states. As a result, they are closely monitored by biologists to gauge their breeding success. The sites where they nest are intensely managed to reduce the impacts of human disturbance, predators, and other threats.

Less is known about the wintering sites used by Piping Plovers, even though they spend at least half their lives at these winter locations. An international group of researchers, government agencies, and environmental organizations are working together to learn more about the habitats Piping Plovers use in the winter, especially the many islands and cays of The Bahamas.

Enjoy the beach and remember to share it with our feathered Piping Plover friends.





# Plover Word Search



P	I	P	I	N	G	P	L	O	V	E	R	T	H	N
E	N	Y	R	H	S	J	T	V	N	P	F	I	C	N
F	N	Q	D	A	A	Z	K	E	J	O	E	D	N	E
R	L	D	N	N	H	B	W	B	R	I	O	A	O	T
A	O	D	A	S	O	J	I	A	L	F	X	L	C	E
C	U	G	Z	N	E	I	G	T	O	X	N	F	P	S
C	Y	C	V	R	G	E	T	W	A	D	G	L	H	R
O	B	B	S	T	Z	E	R	A	O	T	F	A	S	N
O	S	E	S	F	B	O	R	K	D	R	P	T	I	Z
N	Y	O	F	Z	T	F	C	E	C	E	M	Y	F	S
N	O	I	T	A	R	G	I	M	D	I	R	S	E	N
R	Y	T	D	B	A	H	A	M	A	S	H	P	N	R
O	C	E	N	W	S	Q	S	H	A	R	K	C	O	V
B	R	X	Z	N	J	G	R	L	H	C	A	E	B	S
P	A	C	M	D	R	T	T	P	K	H	H	V	P	L

BAHAMAS  
CHICK  
FORAGE  
NEST  
PREDATION  
ROOST  
TIDALFLAT

BEACH  
CONCH  
HABITAT  
NEWJERSEY  
PREDATOR  
SAND  
WORMS

BONEFISH  
ENDANGERED  
MIGRATION  
PIPINGPLOVER  
RACCOON  
SHARK



# Plover Word Sort



How many words with three or more letters can you find using the letters in  
PIPING PLOVER  
???

Hint: You may use 3 P's and 2 I's in each word.

Three Letters  
e.g. POP

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Four Letters  
e.g. PIPE

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Five or More Letters  
e.g. PROVE

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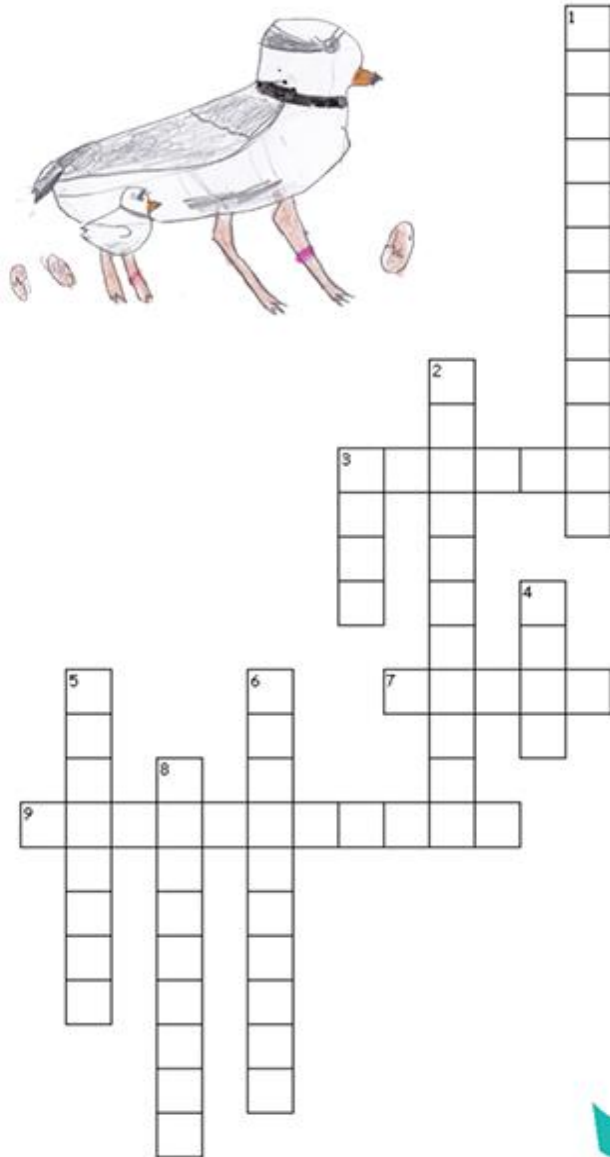
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# Plover Crossword

## Down

1. Endangered shorebird
2. Piping Plovers like to eat this
3. Piping Plovers can lay up to how many eggs?
4. Piping Plovers make this on a sandy beach, by digging a shallow scrape in the sand
5. A predator to Piping Plovers
6. Habitat that Piping Plovers like to frequent when they are in The Bahamas
8. A seasonal move from one place to another place (sometimes from one climate to another climate)

## Across

3. To search for food:
7. A place where birds can rest or sleep
9. The major threat to Piping Plovers



# Plover Tales



## DIRECTIONS

Write a word or phrase according to the directions below. Then use the words in the Plover Tales and create your own Piping Plover story.

1. \_\_\_\_\_ Verb with -ing ending
2. \_\_\_\_\_ Number
3. \_\_\_\_\_ Color
4. \_\_\_\_\_ Color
5. \_\_\_\_\_ Animal
6. \_\_\_\_\_ Four words of dialogue
7. \_\_\_\_\_ Number
8. \_\_\_\_\_ Place

I was 1. \_\_\_\_\_ on the beach when I saw a Piping Plover and her nest with  
2. \_\_\_\_\_ eggs. Some of the eggs were 3. \_\_\_\_\_ and the rest of the eggs were  
4. \_\_\_\_\_. Along came a 5. \_\_\_\_\_ and took one of the eggs.

The mother bird yelled at the predator and called out, "Stop! Give me back my egg!"

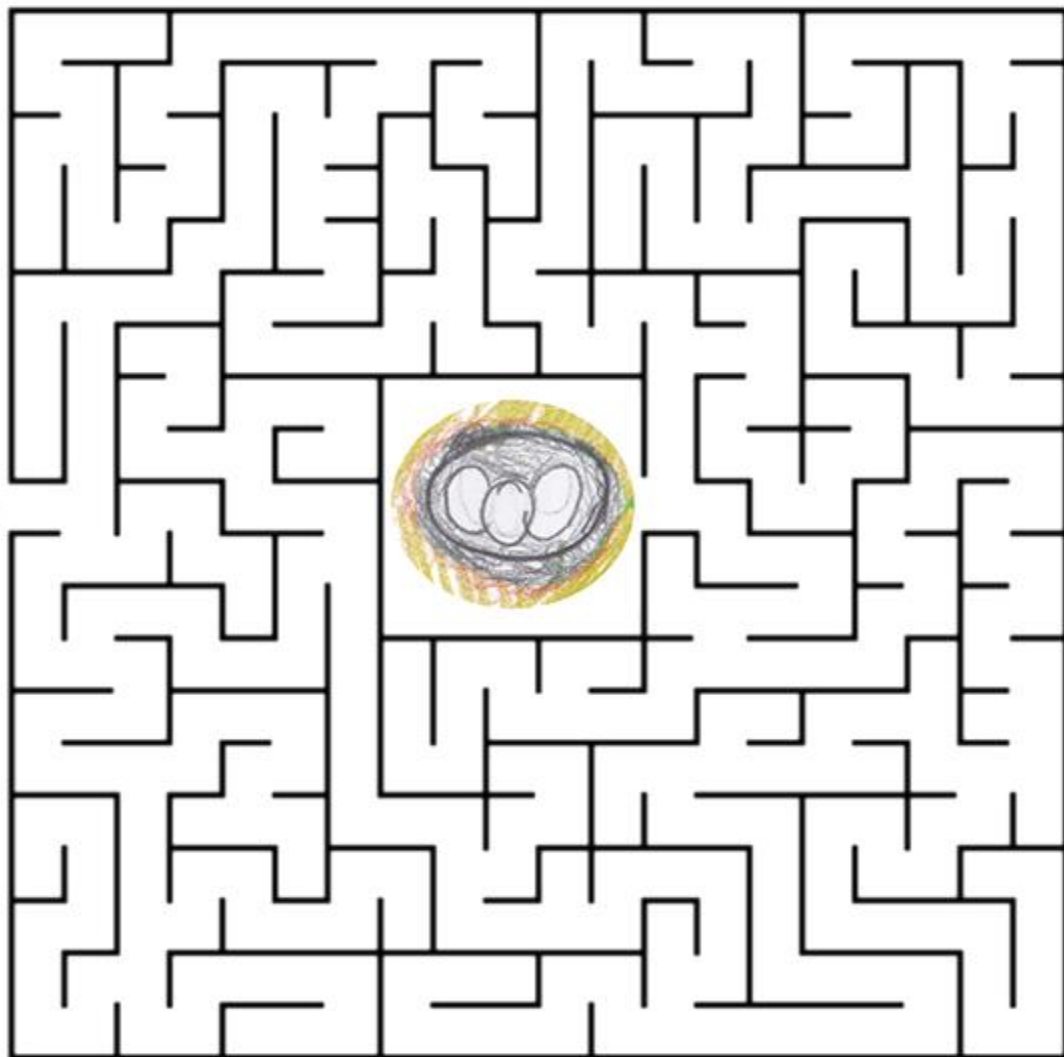
The thief answered, "6. \_\_\_\_\_  
\_\_\_\_\_. I was amazed and took 7. \_\_\_\_\_ pictures to show my friends.

But before long it started to rain so I ran to 8. \_\_\_\_\_ to stay dry. The plover followed me,  
and even though I would have loved to keep her as a pet, I knew the safest place for her was on the  
beach with her babies.



# Plover Maze

Help the Piping Plover  
return to its nest so it can  
protect its eggs from  
predators and  
weather.



# Plover Coloring Page



*Illustrations by Julie Zickfoose  
Courtesy of U.S. Fish and Wildlife Service*

## Breeding Plumage

Directions:

Color the legs orange.

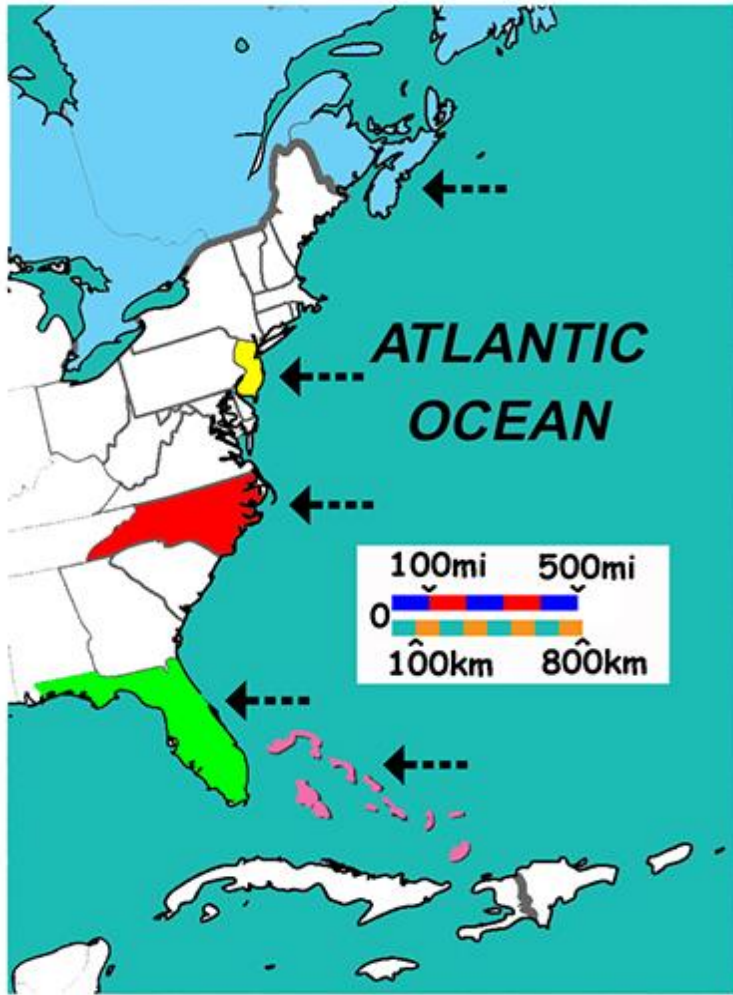
Color the beak half orange  
and half black.

Color the eyebrow and  
neckband black.

Color the belly white.

Color the wings and  
tail feather light brown  
and gray.





# Plover Migration

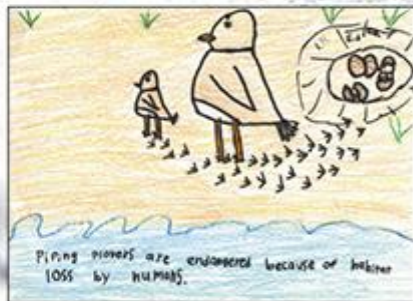
- Canada
- New Jersey
- North Carolina
- Florida
- The Bahamas

Paul Plover flew from Canada to Florida.  
 How many miles did he fly? \_\_\_\_\_ miles  
 Paul Plover flew from Florida to Bahamas.  
 How many miles did he fly? \_\_\_\_\_ miles  
 How many miles did he fly altogether? \_\_\_\_\_ miles

Penelope Plover flew from New Jersey to North Carolina.  
 How many miles did she fly? \_\_\_\_\_ miles  
 Penelope Plover flew from North Carolina to Bahamas.  
 How many miles did she fly? \_\_\_\_\_ miles  
 How many miles did she fly altogether? \_\_\_\_\_ miles

Pepper Plover flew from Canada to New Jersey.  
 How many miles did she fly? \_\_\_\_\_ miles  
 Pepper Plover flew from New Jersey to Bahamas.  
 How many miles did she fly? \_\_\_\_\_ miles  
 How many miles did she fly altogether? \_\_\_\_\_ miles

# Plover Power!



**THE PIPING PLOVER IS A SMALL ENDANGERED SHOREBIRD** that breeds on New Jersey beaches from March to August. They lay their eggs in shallow depressions in the sand and bring their tiny chicks to the water's edge to feed.

**PIPING PLOVERS ARE VULNERABLE TO HUMAN DISTURBANCE, DOGS, PREDATORS, FLOODING, AND OTHER THREATS.**

**YOU CAN HELP THE PIPING PLOVER** by being mindful of roped-off areas and following any rules that are posted to protect nesting birds and their habitat. Please leave your dog off the beach where birds are nesting.



LEARN MORE



[ConserveWildlifeNJ.org](http://ConserveWildlifeNJ.org)

Original artwork designed by Debra Rosander's 4th grade students at Ocean City Intermediate School, April 2014.  
Piping Plover Chick Photo © Jim Verhagen. Funding for this project generously provided by Disney Worldwide Conservation Fund.



# Plover Power!



The Piping Plover is a small endangered shorebird that spends the fall and winter in the Bahamas, from October to March. They use a variety of coastal habitats, but tidal flats are especially important to their survival. These flats are also critical for a number of marine species - bonefish, conch, shark - which have commercial and ecological value.

Piping Plovers are vulnerable to human disturbance, dogs, predators, and loss of habitat from development and invasive species such as the Australian pine, (*Casuarina*) and the Hawaiian seagrape.

You can help the Piping Plover by keeping your distance from shorebirds on the flats and beaches where they feed and rest. Please keep your dog off the beach where birds are present.



Original artwork designed by Jan Russell's 3rd and 4th grade students at Amy Roberts Primary School, April 2014.  
Wintering Piping Plover Photo © Tom Reed. Funding for this project generously provided by Disney Worldwide Conservation Fund.

## Plover Word Search SOLUTION

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P I P I N G P L O V E R T H N
E + + + H S + + + N + F I C E
+ N + + A A + + E + O + D N S
R + D N N + B W + R + + A O T
A + D A + O J I A + + + L C +
C + + + N E I G T + + + F + +
C + + + R G E T W A + + L H +
O + + S T + E R A O T + A S +
O + E S + + O R K D R + T I +
N Y O + + T + + E C E M + F +
N O I T A R G I M D I R S E +
R + + D B A H A M A S H P N +
+ + E + + + + S H A R K C O +
+ R + + + + + + H C A E B +
P + + + + + + + + + + + +
  
```

(Over, Down, Direction)

BAHAMAS (5, 12, E)  
 BEACH (14, 14, W)  
 BONEFISH (14, 14, N)  
 CHICK (13, 13, NW)  
 CONCH (14, 5, N)  
 ENDANGERED (1, 2, SE)  
 FORAGE (12, 2, SW)  
 HABITAT (5, 2, SE)  
 MIGRATION (9, 11, W)  
 NEST (15, 1, S)  
 NEWJERSEY (10, 2, SW)  
 PIPINGPLOVER (1, 1, E)  
 PREDATION (13, 12, NW)  
 PREDATOR (1, 15, NE)  
 RACCOON (1, 4, S)  
 ROOST (1, 12, NE)  
 SAND (6, 2, SW)  
 SHARK (8, 13, E)  
 TIDALFLAT (13, 1, S)  
 WORMS (9, 7, SE)



## Plover Word Sort SOLUTIONS

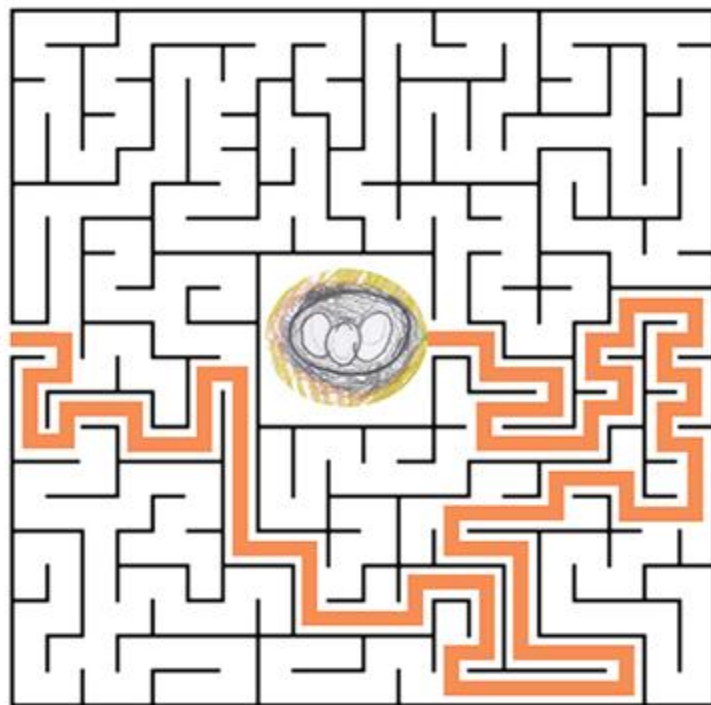
LEG	GONE	GLOVE
LIE	GORE	GRIPE
LOG	GRIN	LIVER
PIE	HIVE	
PIG	HONE	LINING
	HOPE	LIVING
	LINE	LOVING
	LIVE	PINING
	LONE	PIPING
	LOPE	VIOLIN
	LOVE	
	OVER	POPPING
	PIER	
	PILE	PLOPPING
	PINE	
	PING	
	PIPE	
	POLE	
	PONE	
	PONG	
	RIPE	
	ROPE	
	VILE	
	VINE	
	VOLE	



Plover Crossword  
SOLUTION



Plover Maze  
SOLUTION





This activity book was creatively designed in partnership with Debra Rosander's 4th grade students at Ocean City Intermediate School in Ocean City, New Jersey; Jan Russell's 3rd and 4th grade students at Amy Roberts Primary School on Green Turtle Cay, Abaco, The Bahamas; and Mary Lenahan's Leeds Avenue Elementary School Environmental Club in Pleasantville, New Jersey. It is part of a collaborative project with Conserve Wildlife Foundation of New Jersey, Inc. and Friends of the Environment for Piping Plover conservation in the United States and The Bahamas and generously funded by the Disney Conservation Fund.