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

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

BAHAMAS
CHICK
FORAGE
NEST
PREDATION
ROOST
TIDALFLAT

BEACH
CONCH
HABITAT
NEWJERSEY
PREDATOR
SAND
WORMS

BONEFISH
ENDANGERED
MIGRATION
PIPEINGPLOVER
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.

<table>
<thead>
<tr>
<th>Three Letters e.g. POP</th>
<th>Four Letters e.g. PIPE</th>
<th>Five or More Letters e.g. PROVE</th>
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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.
Help the Piping Plover return to its nest so it can protect its eggs from predators and weather.
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.

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

[Conserve Wildlife Foundation of New Jersey](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.
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

PIPING PLOVER THN
E +++ H S ++ N + F I C E
+ N ++ A A ++ E + O + D N S
R + D 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 + TI +
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)
NEW JERSEY (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 Words Sort

SOLUTIONS

LEG GONE GLOVE
LIE GORE GRIPER
LOG GRIN LIVER
PIE HIVE LINING
PIG HONE HOPE LIVING

LOVE LINE LOVING
LONE LIVE PINING
LOPE PIPING PIPING
LOVE VIOLIN POPLING

OVER PIER PLOPPING
PIER PILE PADDING
PILE PINE PING
PINE PIPE POLE
PIPE** PONE PONG
PONG RIPE ROPE
ROPE ROPE VILE
VILE VINE VINE
VINE VOLS
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.