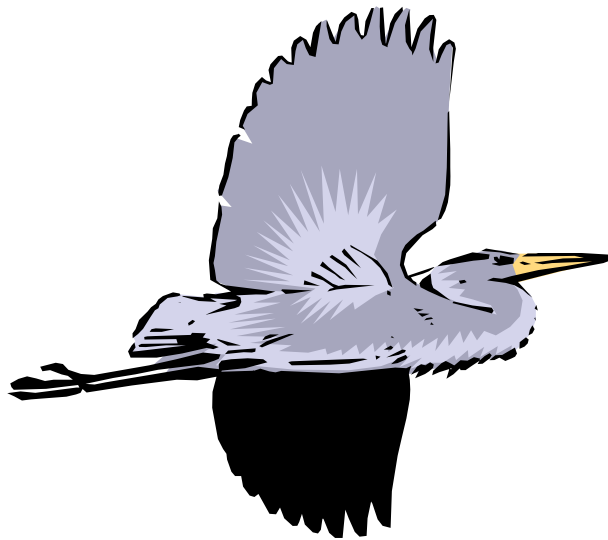


MAST ACADEMY OUTREACH

ELEMENTARY SCHOOL PROGRAM

Birds of the Everglades

On-site Package



MAST Academy

Maritime and Science Technology High School

Miami-Dade County Public Schools

Miami, Florida

BIRDS OF THE EVERGLADES

ON-SITE PACKAGE

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Student Instructions



1. Use the field notes sheets in this packet to record field notes for each of the birds you see while exploring Royal Palm Hammock. Ask for additional field note sheets from the MAST Outreach instructor if you need them.

2. You will be given a Field Guide to help with identification. Use the Bird Checklist to check off each bird you identify.

LOCAL BIRDS of South Florida



3. Binoculars will help you to see the field marks needed to identify the birds. Make sure your binoculars are always ready for use by keeping them around your neck while you are on the trail.

4. Let the instructor know if you see a bird that hasn't been seen yet. Stay with the group to ensure that you don't miss any sighting. Remember that being quiet while on the trail will allow everyone to observe a bird before it flies away.



5. Other wildlife, such as mammals or reptiles, will almost certainly be seen while on the trail. **KEEP YOUR DISTANCE!** Use the enclosed sheet to help you identify these creatures.

6. It gets hot out here! Make sure you wear headgear, sunscreen, and carry water with you while on the trail. Be sure to apply insect repellent before you hit the trail.



**LET'S HAVE FUN, AND ENJOY THE BEAUTY OF
EVERGLADES NATIONAL PARK!**

Introduction

Everglades National Park was established in 1947 to protect the rich resources of South Florida's subtropical wilderness wetlands, particularly the diverse and abundant birdlife. Birds have always been one of the park's principal activities for park visitors.

This page provides a complete list of the birds known from the park, 347 species as of 1 June 1984, along with a key indicating the abundance and seasonal occurrence of each species. It follows earlier

checklist compiled by William B. Robertson, Jr., Willard E. Dilley, John C. Ogden and R. L. Cunningham and reflects the continuing growth of information about the birds of the Park. As noted in the list, many birds are known in Everglades National Park from only a few records. Users of this checklist can contribute to updating future lists by carefully recording details of their observations of less common species and reporting the information to park personnel.

Key

B	Breeding status
Sp	Spring (March 1 - May 31)
Su	Summer (June 1 - July 31)
F	Fall (August 1 - November 15)
W	Winter (November 16 - February 28)
c	Commonly observed
u	rarely observed
r	Fewer than 10 records
+	Breeding
?	Breeding status unknown

Birds

	B	Sp	Su	F	W
Red-throated Loon					*
Common Loon			r	r	r
Pied-billed Grebe	+		c	u	c
Horned Grebe			c	c	c
Red-necked Grebe					*
Sooty Shearwater					*
Wilson's Storm-Petrel					*
Brown Booby					*
Northern Gannet					*
American White Pelican	+	c	r	c	c
Brown Pelican			c	c	c
Great Cormorant					*
Double-crested Cormorant	+	c	c	c	c
Anhinga	+	c	c	c	c
Magnificent Frigatebird		u	u	u	u
American Bittern	?	u	r	u	c
Least Bittern	+	u	u	u	u
Great Blue Heron	+	c	c	c	c
Green? Blue Heron (White Phase)	+	c	c	c	c
Great Egret	+	c	c	c	c
Snowy Egret	+	c	c	c	c
Little Blue Heron	+	c	c	c	c
Tricolored Heron	+	c	c	c	c

[illegible]



Other Wildlife Seen in South Florida

Mammals

___ Raccoon



___ River Otter



___ Opossum



___ Marsh Rabbit



___ Gray Squirrel



___ White-tailed Deer



Reptiles

___ American Alligator



___ Florida Redbelly Turtle



___ Florida Softshell



___ Florida Water Snake



___ Florida Cottonmouth



___ Eastern Indigo





BIRDWATCHING FIELD NOTES

Step 1: Bird's Location/Patterns in Behavior
(circle all that apply)

PATTERNS IN BEHAVIOR

In the Air

Straight flight

Bounding flight

Gliding flight

Hovering flight

On the Ground

Walks

Hops

In Trees

Climbs up tree trunks or branches

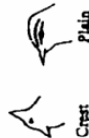
In the Water

Wades

Swims

Climbs down tree trunks or branches

Step 4: Shape of Top of Head (circle one)



Step 5: Markings on the Face
(circle all that apply)



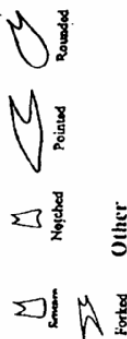
Step 8: Shape/Color of Legs (circle one)



Step 9: Feet Shape
(circle one)



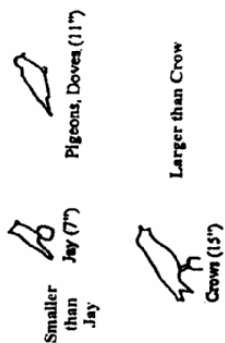
Step 12: Tail Shape
(circle one)



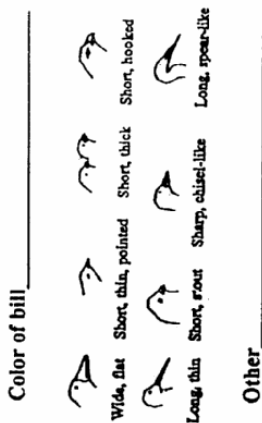
Step 13: Markings on the Tail
(circle all that apply)



Step 2: Compare Size
(circle one)



Step 3: Shape/Color of Bill
(circle one)



Step 6: Wing Shape
(circle one)



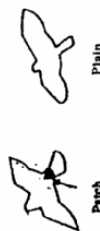
Step 7: Patterns on the Wings
(circle all that apply)



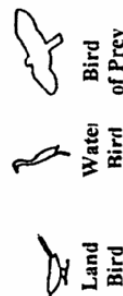
Step 10: Markings on the Breast
(circle all that apply)



Step 11: Markings on the Rump (circle one)



Step 14: Basic Bird Group
(circle one)



Step 15: Draw the Bird

Name of Bird _____



BIRDWATCHING FIELD NOTES

Step 1: Bird's Location/Patterns in Behavior
(circle all that apply)

PATTERNS IN BEHAVIOR

In the Air

On the Ground

In the Water

Straight flight

Wings Hops

Walks

Wades

Swims

Bounding flight

Gliding flight

Hovering flight

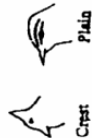
In Trees

Climbs up tree trunks or branches

Climbs down tree trunks or branches

Swims

Step 4: Shape of Top of Head (circle one)



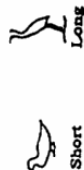
Step 5: Markings on the Face
(circle all that apply)



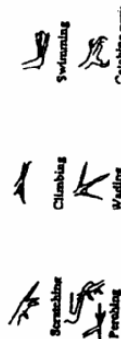
Other _____

Step 8: Shape/Color of Legs (circle one)

Color of legs _____

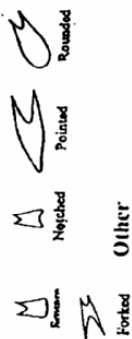


Step 9: Feet Shape
(circle one)



Other _____

Step 12: Tail Shape
(circle one)

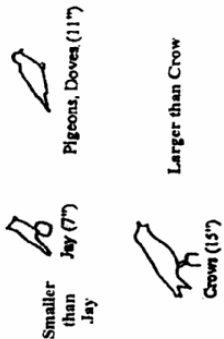


Step 13: Markings on the Tail
(circle all that apply)



Step 2: Compare Size
(circle one)

Color of bill _____



Step 6: Wing Shape
(circle one)



Other _____

Step 7: Patterns on the Wings
(circle all that apply)



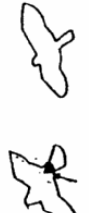
Other _____

Step 10: Markings on the Breast
(circle all that apply)



Other _____

Step 11: Markings on the Rump (circle one)



Step 15: Draw the Bird

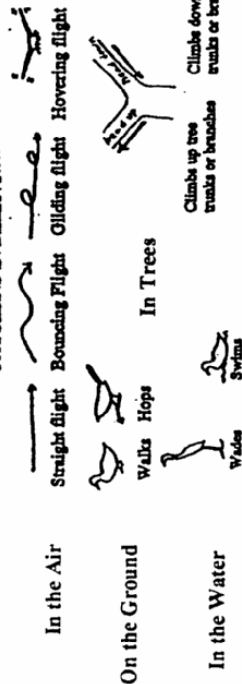
Name of Bird _____



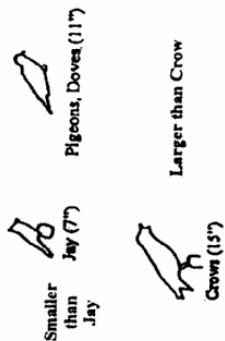
BIRDWATCHING FIELD NOTES

Step 1: Bird's Location/Patterns in Behavior
(circle all that apply)

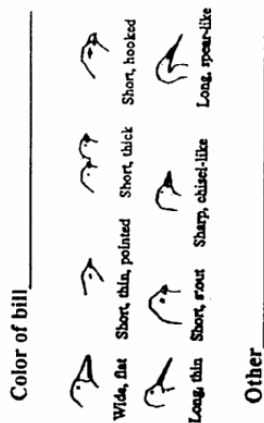
PATTERNS IN BEHAVIOR



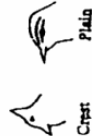
Step 2: Compare Size
(circle one)



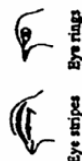
Step 3: Shape/Color of Bill
(circle one)



Step 4: Shape of Top of Head (circle one)



Step 5: Markings on the Face
(circle all that apply)



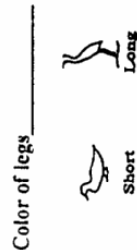
Step 6: Wing Shape
(circle one)



Step 7: Patterns on the Wings
(circle all that apply)



Step 8: Shape/Color of Legs (circle one)



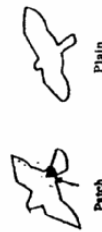
Step 9: Feet Shape
(circle one)



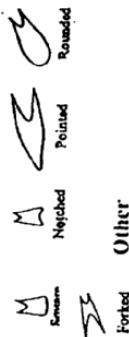
Step 10: Markings on the Breast (circle all that apply)



Step 11: Markings on the Rump (circle one)



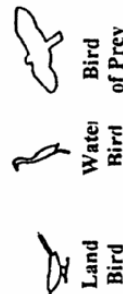
Step 12: Tail Shape
(circle one)



Step 13: Markings on the Tail
(circle all that apply)



Step 14: Basic Bird Group
(circle one)



Step 15: Draw the Bird

Name of Bird _____







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Step 3: Shape/Color of Bill
(circle one)

Color of bill					
Wide, flat					
Long, thin					
Other					



Plain
Crest


Color of legs_____

	Rounded
	Pointed
	Notched
	Forked
	Serrated
	Other


	Land Bird	Water Bird	Bird of Prey
1			
2			
3			
4			
5			
6			


Name of Bird_____


	Eye stripes
	Eye rings

	Swimming		Catching prey
	Climbing		Walking
	Scratching		Purring

Other

 **End**

 **Edges**

 **Sides**

Long, wide











Short, wide


Long, thin


The diagram illustrates two types of fish markings. On the left, a fish is shown with vertical dark bands labeled 'Bars'. On the right, a fish is shown with dark spots labeled 'Spots'.




Wing patches
Wing Bars


In the Air	In Trees				In the Water				
   	 	 	 						
Straight flight	Bouncing flight	Gliding flight	Hovering flight	Walks	Hops	Climbs up tree trunk or branches	Climbs down trunk or branches	Wades	Swims


	Eye stripes
	Eye rings

	Swimming		Catching prey
	Climbing		Walking
	Scratching		Purring

Other

 **End**

 **Edges**

 **Sides**

Long, wide

Short, wide

Long, thin









The diagram illustrates two types of fish markings. On the left, a fish is shown with vertical dark bands labeled 'Bars'. On the right, a fish is shown with dark spots labeled 'Spots'.














Wing patches
Wing Bars

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Step 3: Shape/Color of Bill
(circle one)

Color of bill	
	
Wide, flat	Short, thin, pointed
	
Long, thin	Short, stout
	
Sharp, chisel-like	Short, thick
	
Long, spoon-like	Short, hooked

In the Air	 Straight flight	 Bouncing flight	 Olling flight	 Hovering flight	
On the Ground	 Walks	 Hops	 In Trees		
In the Water	 Wades	 Swims	 Climbs up tree trunks or branches	 Climbs down trunks of trees	

Step 5: Markings on the Face
(circle all that apply)

Step 7: Patterns on the Wings
(circle all that apply)

Step 10: Markings on the Breast (circle all that apply)







Step 11: Markings on the Rump (circle one)

of legs _____

Step 13: Markings on the Tail
(circle all that apply)

Step 14: Basic Bird Group
(circle one)

Step 15: Draw the Bird

	Rounded
	Pointed
	Notched
	Serrated
	Other
	Forked

Other









Side
Edge
End












Land Bird	Water Bird	Bird of Prey
-----------	------------	--------------

Name of Bird_____

۱۰۰

Step 3: Shape/Color of Bill
(circle one)







Color of bill	
	
Wide, flat	Short, thin, pointed
	
Long, thin	Short, stout
	
Sharp, dagger-like	Sharp, dagger-like
	
Long, spoon-like	Short, hooked

In the Air	Straight flight 	Bouncing Flight 	Oidding flight 	Hovering flight 
On the Ground	Walks 	Hops 	In Trees 	
In the Water	Wades 	Swims 	Climbs up tree trunks or branches 	Climbs down trunks of trees 

Step 5: Markings on the Face
(circle all that apply)




Step 7: Patterns on the Wings
(circle all that apply)




Step 11: Markings on the Rump (circle one)

		
Scratching	Climbing	Swimming
		
Perching	Wading	Catching prey
Other		

Step 13: Markings on the Tail
(circle all that apply)

Step 15: Draw the Bird

 Rounded
 Pointed
 Notched
 other









  











	Land Bird	Water Bird	Bird of Prey
1	✓		
2		✓	
3			✓
4	✓		
5			✓
6	✓		
7		✓	
8			✓
9	✓		
10			✓
11	✓		
12		✓	
13			✓
14	✓		
15		✓	
16			✓
17	✓		
18		✓	
19			✓
20	✓		
21		✓	
22			✓
23	✓		
24		✓	
25			✓
26	✓		
27		✓	
28			✓
29	✓		
30		✓	
31			✓
32	✓		
33		✓	
34			✓
35	✓		
36		✓	
37			✓
38	✓		
39		✓	
40			✓
41	✓		
42		✓	
43			✓
44	✓		
45		✓	
46			✓
47	✓		
48		✓	
49			✓
50	✓		
51		✓	
52			✓
53	✓		
54		✓	
55			✓
56	✓		
57		✓	
58			✓
59	✓		
60		✓	
61			✓
62	✓		
63		✓	
64			✓
65	✓		
66		✓	
67			✓
68	✓		
69		✓	
70			✓
71	✓		
72		✓	
73			✓
74	✓		
75		✓	
76			✓
77	✓		
78		✓	
79			✓
80	✓		
81		✓	
82			✓
83	✓		
84		✓	
85			✓
86	✓		
87		✓	
88			✓
89	✓		
90		✓	
91			✓
92	✓		
93		✓	
94			✓
95	✓		
96		✓	
97			✓
98	✓		
99		✓	
100			✓

Name of Bird.

۱۰۰

Step 3: Shape/Color of Bill
(circle one)

Color of bill	
	Wide, flat
	Short, thin, pointed
	Short, thick
	Short, hooked
	Long, thin
	Short, stout
	Sharp, chisel-like
	Long, spoon-like







In the Air	In Trees				In the Water				
   	 	 	 						
Straight flight	Bouncing flight	Gliding flight	Hovering flight	Walks	Hops	Climbs up tree trunk or branches	Climbs down trunk or branches	Wades	Swims

Step 5: Markings on the Face
(circle all that apply)

Step 7: Patterns on the Wings
(circle all that apply)

Step 10: Markings on the Breast (circle all that apply)





Step 11: Markings on the Rump (circle one)

		
Scrambling	Climbing	Swimming
		
Piercing	Walking	Catching prey




Step 13: Markings on the Tail
(circle all that apply)

Step 14: Basic Bird Group
(circle one)

Step 15: Draw the Bird

	Necktie		Other
	Sweater		Footed

End Edges Sides

	Land Bird
	Water Bird
	Bird of Prey

Name of Bird _____

۱۰۰

Step 3: Shape/Color of Bill
(circle one)



Color of bill					
Wide, flat	Short, thin, pointed	Short, thick	Short, hooked	Long, straight	Long, rous-like
Long thin	Short, stout	Sharp, chisel-like			







In the Air	Straight flight	Bouncing flight	Gliding flight	Hovering flight
On the Ground	Walks	Hops	In Trees	
In the Water	Wades	Swims	Climbs up tree trunks or branches	
			Climbs down trunks or branches	



Plain

Crest

Color of legs _____


	
Short	Long


Other	Forked	Serrated	Notched	Pointed	Rounded
					


	Eye rings
	Eye stripes

			
Swimming	Climbing	Skiing	Other
			
Wading	Canoeing	Fishing	Other
			
Skiing	Canoeing	Fishing	Other

Other

 **End**

 **Edges**

 **Sides**

Long, wide

Short, wide

Long, thin

Land Bird Water Bird Bird of Prey

Name of Bird_____

The School Board of Miami-Dade County, Florida, adheres to a policy of nondiscrimination in employment and educational programs/activities and strives affirmatively to provide equal opportunity for all as required by:

Title VI of the Civil Rights Act of 1964 - prohibits discrimination on the basis of race, color, religion, or national origin.

Title VII of the Civil Rights Act of 1964, as amended - prohibits discrimination in employment on the basis of race, color, religion, gender, or national origin.

Title IX of the Education Amendments of 1972 - prohibits discrimination on the basis of gender.

Age Discrimination in Employment Act of 1967 (ADEA), as amended - prohibits discrimination on the basis of age with respect to individuals who are at least 40.

The Equal Pay Act of 1963, as amended - prohibits sex discrimination in payment of wages to women and men performing substantially equal work in the same establishment.

Section 504 of the Rehabilitation Act of 1973 - prohibits discrimination against the disabled.

Americans with Disabilities Act of 1990 (ADA) - prohibits discrimination against individuals with disabilities in employment, public service, public accommodations, and telecommunications.

The Family and Medical Leave Act of 1993 (FMLA) - requires covered employers to provide up to 12 weeks of unpaid, job-protected leave to "eligible" employees for certain family and medical reasons.

The Pregnancy Discrimination Act of 1978 - prohibits discrimination in employment on the basis of pregnancy, childbirth, or related medical conditions.

Florida Educational Equity Act (FEEA) - prohibits discrimination on the basis of race, gender, national origin, marital status, or handicap against a student or employee.

Florida Civil Rights Act of 1992 - secures for all individuals within the state freedom from discrimination because of race, color, religion, sex, national origin, age, handicap, or marital status.

School Board Rules 6Gx13- 4A-1.01, 6Gx13- 4A-1.32, and 6Gx13- 5D-1.10 - prohibit harassment and/or discrimination against a student or employee on the basis of gender, race, color, religion, ethnic or national origin, political beliefs, marital status, age, sexual orientation, social and family background, linguistic preference, pregnancy, or disability.

Veterans are provided re-employment rights in accordance with P.L. 93-508 (Federal Law) and Section 295.07 (Florida Statutes), which stipulate categorical preferences for employment.

REVISED 8/1/01