

Ornithology Answer Key

Scioly Summer Study Session

Date: -

Total Point Count: 137

Notes

Do not deduct points if Scientific Name is written but is not required. They are shown in the answer key with a strikethrough.

Station 1 (13 pts possible)

1. Common Name: Northern Shoveler (1 pt)
Scientific Name: ~~*Spatula clypeata*~~
2. Male (1 pt)
The males are blue, rust, green, or white in color while during flight, the upper wing is blue and the secondaries are green. (2 pts)
3. It can be used to strain food out of a muddy lake. (2 pts)
4. The nest is placed in a small, 8 inches wide depression in the ground with at least three sides of short vegetation and lined with downy feathers. (2 pts)
5. They court females on wintering grounds with dips, head pumping, turns, and wing flaps. (2 pts)
6. During the breeding season. (1 pt)
7. True (2 pts)

Station 2 (12 pts possible)

3 points per each row, 1 point for each bird, order, and family correct.

Egg	Bird	Order	Family	Bird Common/Scientific Name (Not needed for question)
A	3	Charadriiformes	Scolopacidae	Spotted Sandpiper <i>Spatula clypeata</i>
B	1	Suliformes	Phalacrocoracidae	Double-crested Cormorant <i>Phalacrocorax auritus</i>
C	4	Charadriiformes	Laridae	Least Tern <i>Sternula antillarum</i>
D	2	Passeriformes	Tyrannidae	Eastern Kingbird <i>Tyrannus tyrannus</i>

Station 3 (20 pts possible)

Give 2 points if the common name is right with sound, 1 additional point for scientific name (only if required to know) and an additional 1 point for diet (not all have to be written to gain points).

Sound #	Bird Common/Scientific Name (If Required to Know)	Diet
1	Sora <i>Porzana carolina</i>	Seeds from Wetland Plants (Rice, Bulrush, Smartweed Seeds, Grass, and Sedge)/Aquatic Invertebrates
2	Carolina Wren <i>Thryothorus ludovicianus</i>	Insects (Caterpillars, Moths, Stick Bugs, Leafhoppers, Beetles, Grasshoppers, Crickets, and Cockroaches)/Spiders/Lizards/Frogs/Snakes
3	Trumpeter Swan <i>Cygnus buccinator</i>	Small Fish/Fish Eggs/Aquatic Plants (Maretail, Wild Rice, Sedges, Duckweed, Algae, Maretail, Eelgrass, and Pondweeds.)
4	Wood Thrush <i>Hylocichla mustelina</i>	Insects (Beetles, Caterpillars, Ants, Crickets, and Moths)/Small Fruits (Berries)/Spiders
5	Red-breasted Nuthatch <i>Sitta canadensis</i>	Insects (Conifers)/Seeds
6	Killdeer <i>Charadrius vociferus</i>	Insects (Beetles Caterpillars, Grasshoppers, Fly Larvae)/Spiders/Earthworms/Centipedes/Crayfish/Snails/Seeds

Station 4 (15 pts possible)

1. Discovered in the 1950's (1 pt) when the mass spraying of DDT to control beetles that carried diseases caused the death of a large number of robins in Michigan (1 pt), researchers discovered that the birds eating the contaminated earthworms was the cause of it (1 pt).
2. Silent Spring (1 pt) by Rachel Carson (1 pt)
3. DDT affects the birds' calcium metabolism (2 pts) which leads to eggshells too thin to support the weight of the growing offspring (2 pts).
4. Through their diet (1 pt)
5. Fatty Tissues (2 pts)

6. The living weight of the fish-eating birds is lower than the fishes that they feed on. (2 pts)
7. 1972 (1 pt)

Station 5 (12 pts possible)

1 point possible per correct match.

Beaks	A	B	C	D	E	F
	6	4	3	5	1	2
Feet	A	B	C	D	E	F
	3	4	6	1	2	5

Station 6 (16 pts possible)

One point per box correct.

Letter	Anatomy	Letter	Anatomy
A	Crown	I	Flanks
B	Lores	J	Vent
C	Auriculars	K	Tail
D	Malar Region	L	Uppertail Coverts
E	Throat	M	Rump
F	Sides	N	Mantle
G	Breast	O	Nape
H	Belly	P	Supercilium

Station 7 (13 pts possible)

1. Common Name: Bald Eagle (1 pt)

Scientific Name: *Haliaeetus leucocephalus* (1 pt)

2. No (1 pt)

3. Laws (1 pt each):

Bald and Golden Eagle Protection Act; Migratory Bird Treaty Act; Lacey Act

Penalties (1 pt each):

Bald and Golden Eagle Protection Act: First criminal offense is a misdemeanor with maximum penalty of one year in prison and \$100,000 fine for an individual; second offense becomes a felony with maximum penalty of 2 years in prison and \$250,000 fine.

Migratory Bird Treaty Act: Maximum penalty of six months in prison and \$15,000 fine, and commercialization is a felony violation with a maximum penalty of two years imprisonment and \$250,000 fine.

Lacey Act: Maximum of five years and \$250,000 fine for felony convictions and a maximum \$10,000 fine for civil violations and \$250 for marking violations.

4. Nests are found near lakes, reservoirs, rivers, marshes, and coasts (1 pt) and nest in trees, cliff faces and ground sites (1 pt). They look like a bunch of sticks clumped together (1 pt). A picture of the exterior of the nest is shown below.



5. He should go to a body of water (1 pt)

Station 8 (27 pts possible)

Question 1 - labeled points per box; Questions 2-4 - 1 point per box.

	Bird A	Bird B	Bird C	Bird D
1. Common/Scientific Name	Northern Harrier (1) <i>Circus hudsonius</i>	Cooper's Hawk (1) <i>Accipiter cooperii</i> (1)	Red-tailed Hawk (1) <i>Buteo jamaicensis</i> (1)	Golden Eagle (1) <i>Aquila chrysaetos</i>
2. Nesting Site	Ground	Tree	Tree	Cliff
3. IUCN Conservation Level	Least Concern	Least Concern	Least Concern	Least Concern
4. Nestling Period	14 Days	27-34 Days	42-46 Days	45-81 Days

5. Yes (1 pt)

6. 5 mates (2 pts)

7. The male Cooper's Hawk (bird B) is significantly smaller than the female Cooper's Hawk (bird B), which could eat them as they specialize in eating medium sized birds. (2 pts)

8. They have a thrilling, raspy scream that sounds exactly like a raptor. (2 pts)

9. Their common prey animals that they eat don't tend to ingest pesticides; therefore the amount of DDT in their bloodstream stays below harmful levels. (2 pts)

Station 9 (9 pts possible)

1 point per box correct.

Letter	Part	Letter	Part
A	Shell	F	Chorion
B	Amniotic Cavity	G	Yolk Sac
C	Amnion	H	Yolk
D	Embryo	I	Albumen
E	Allantois		