

Plumas Audubon Society



name:

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School:

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year:

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Draw a map of the area around you, marking and describing any type of sounds you hear nearby. Map the sounds you hear in relation to your location represented by an "X".



name this  
BERRY



Sound Map example



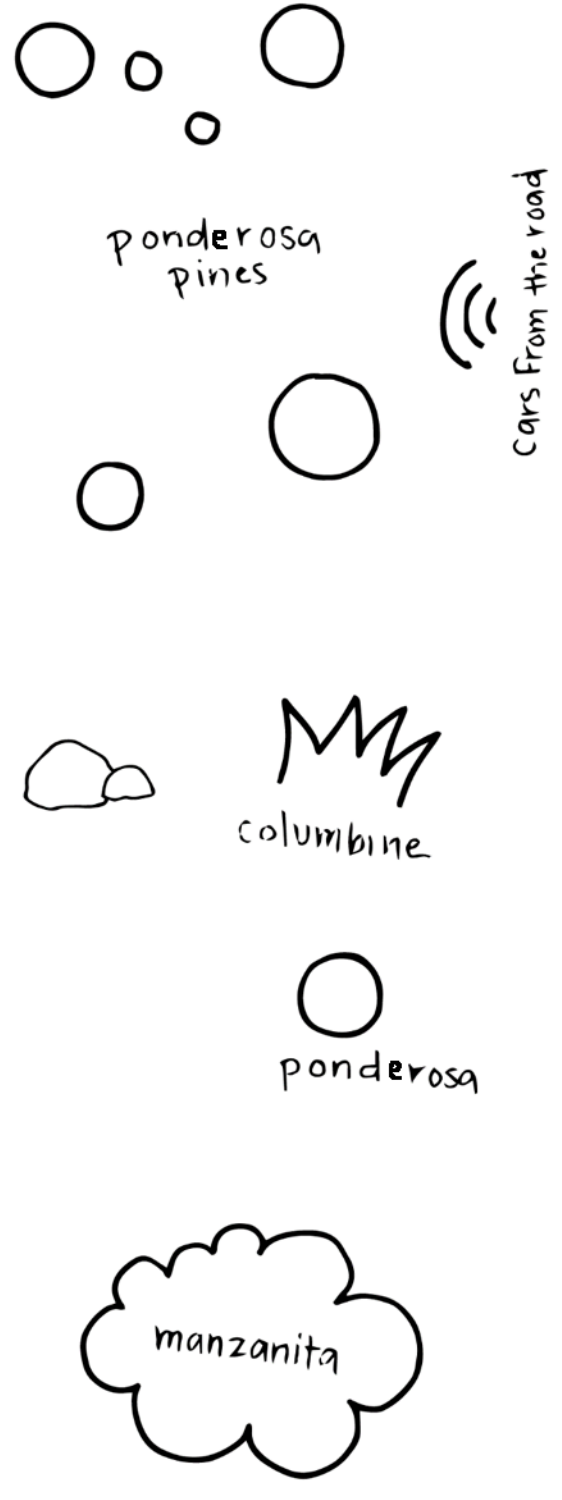
Place: "Q" trail, Quincy

From The Artist



"I like to draw aerial shots of the places I observe to give a 360° effect of the sounds!"

X



Date: March 21, 2018

# Bird Behavior Scavenger Hunt

## Location

- ground
- tree
- shrub
- water
- sky
- nest
- other? \_\_\_\_\_

## Feeding/Foraging Style

- surface feeding
- probing
- pulling from ground
- pecking
- holding and tearing
- other? \_\_\_\_\_

## Maintenance and Care

- preening
- puffing out feathers
- feeding
- feeding young
- nest building
- other? \_\_\_\_\_

## Posture

- perched upright
- standing tall
- hunched or crouched
- grasping on a trunk or branch
- other? \_\_\_\_\_

## Movement and Flight Pattern

- hopping
- bobbing
- low altitude gliding
- high altitude soaring
- rapid flapping
- slow, deep wingbeats
- wading
- floating
- diving
- other? \_\_\_\_\_

## Communication

- singing
- warning call
- chasing or mobbing
- flocking with others
- drumming
- other? \_\_\_\_\_

# Range



(mallard drake)

① Where is this bird found now in California? (color its current range on the map and include that in the legend you add to the map.)

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② Where is its suitable climate expected to be in the future? (color this in a different color on the map and add that to your legend.)

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③ What will any shifts or changes to its future range mean for this bird?

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④ Will it be able to find enough suitable habitat for the future?

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⑤ What can we do to help?

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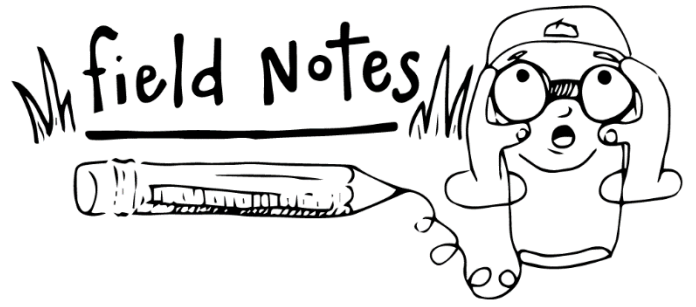
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(American Robin)

date: \_\_\_\_\_

time: \_\_\_\_\_



Weather: \_\_\_\_\_

location: \_\_\_\_\_

\_\_\_\_\_

habitat: \_\_\_\_\_

\_\_\_\_\_

behavior: \_\_\_\_\_

\_\_\_\_\_

"fieldmarks": \_\_\_\_\_

\_\_\_\_\_



Did you know..



Sierra Valley

has the largest

diversity of

bird populations

in the state

of

California!



Take some time to sketch what bird you saw!

☆ guess or know  
the species?

What is it?

\_\_\_\_\_  
\_\_\_\_\_

date: \_\_\_\_\_

time: \_\_\_\_\_

Weather: \_\_\_\_\_

location: \_\_\_\_\_

\_\_\_\_\_

habitat: \_\_\_\_\_

\_\_\_\_\_

behavior: \_\_\_\_\_

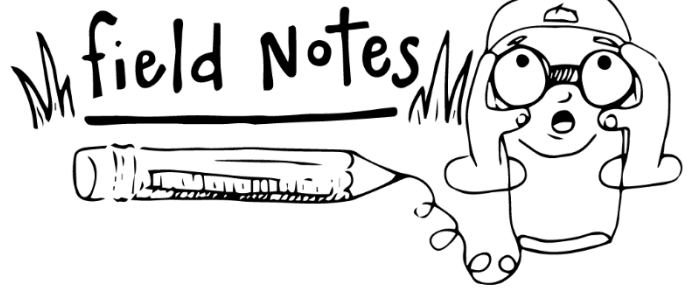
\_\_\_\_\_

"fieldmarks": \_\_\_\_\_

\_\_\_\_\_



Take some time to sketch what bird you saw!



Did you know..

Scientists believe that birds evolved from theropod dinosaurs!

☆ guess or know the species?

What is it?

\_\_\_\_\_

date: \_\_\_\_\_

time: \_\_\_\_\_



Weather: \_\_\_\_\_

location: \_\_\_\_\_

\_\_\_\_\_

habitat: \_\_\_\_\_

\_\_\_\_\_

behavior: \_\_\_\_\_

\_\_\_\_\_

"fieldmarks": \_\_\_\_\_

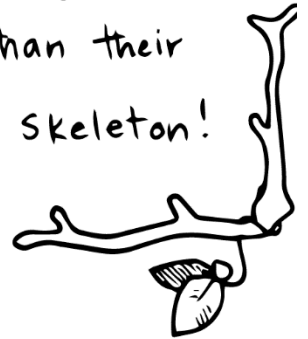
\_\_\_\_\_



Did You Know..

mostly all birds have hollow-bones!

on average, their feathers weigh more than their skeleton!



Take some time to sketch what bird you saw!

☆ guess or know the species?

what is it?

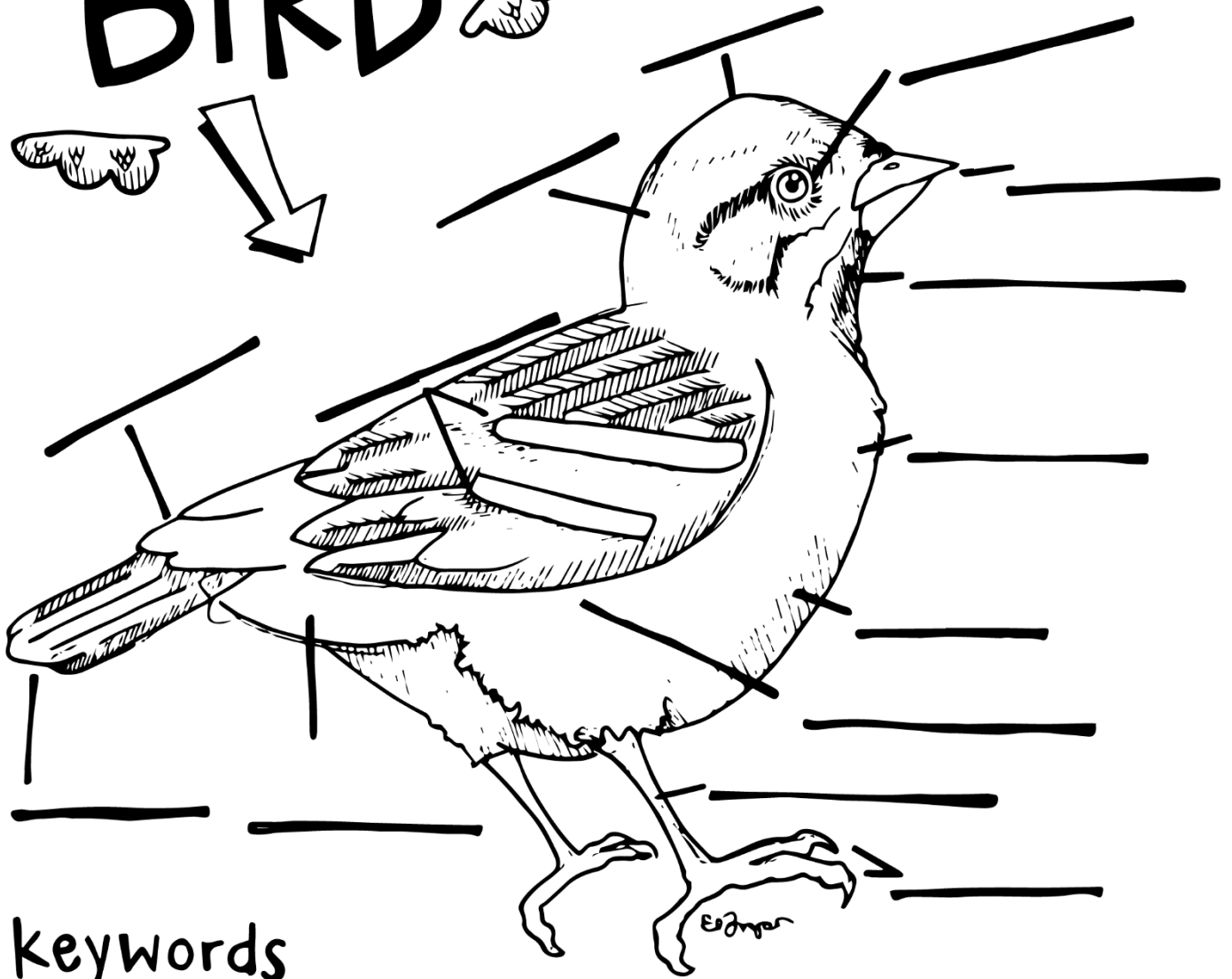
\_\_\_\_\_

\_\_\_\_\_



# Parts of a BIRD

great way to learn  
"field marks"



## keywords

Belly      crown      Nape      Throat      vent

Bill      Eyering      Tail      Toes      wingbars

Breast      Flank      Tarsus      rump

Cross off words  
as you figure  
each part out!

# Groups of Birds

The shape of a bird can help clue you in to what type of bird it is and narrow your search as you try to identify the species.



Blackbirds



Chickadees



Crows



Doves



Ducks



Finches



Flycatchers



Gamebirds



Gulls



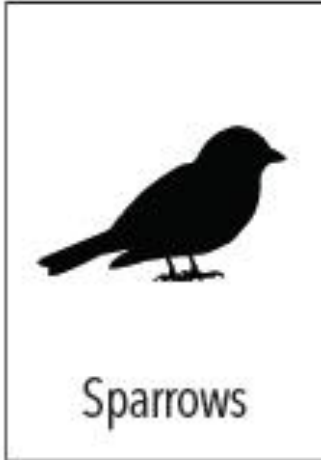
Hawks



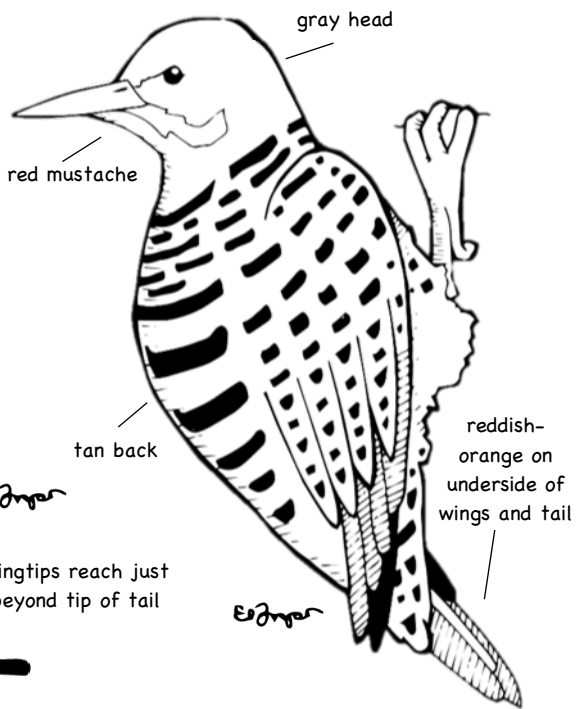
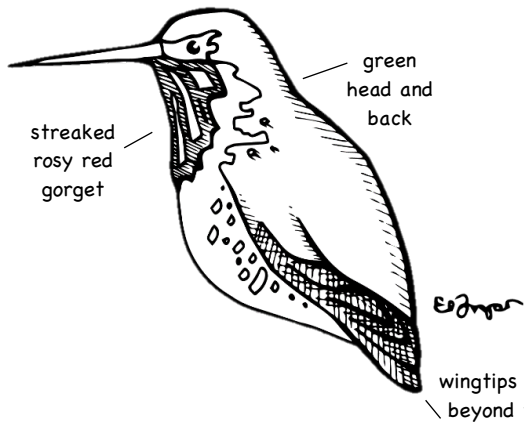
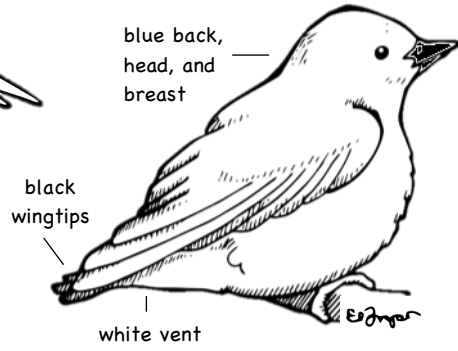
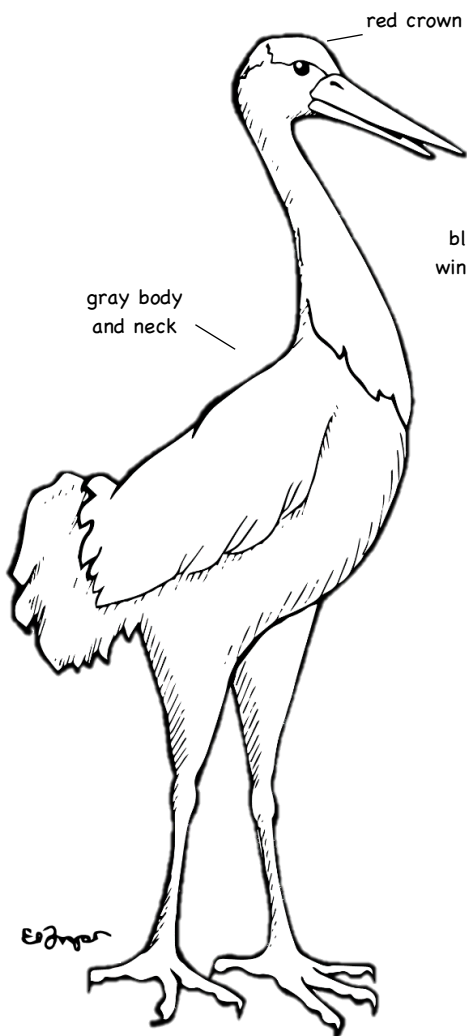
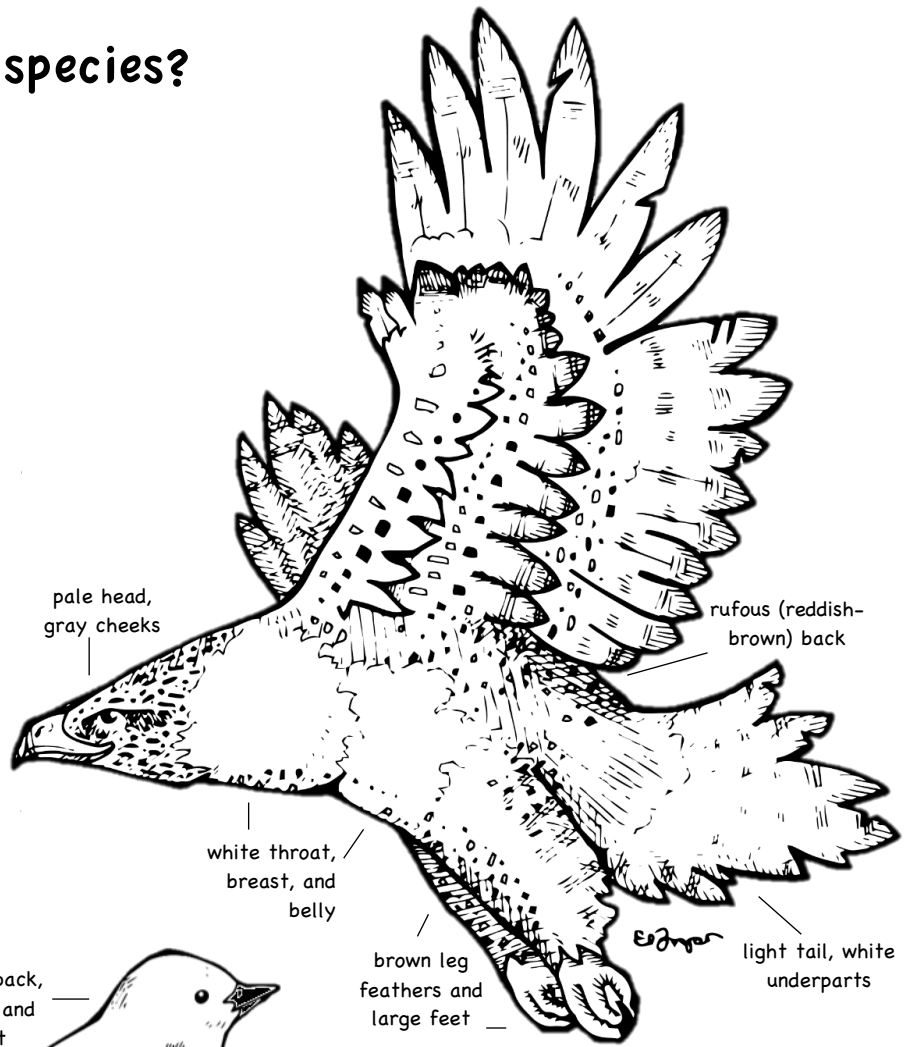
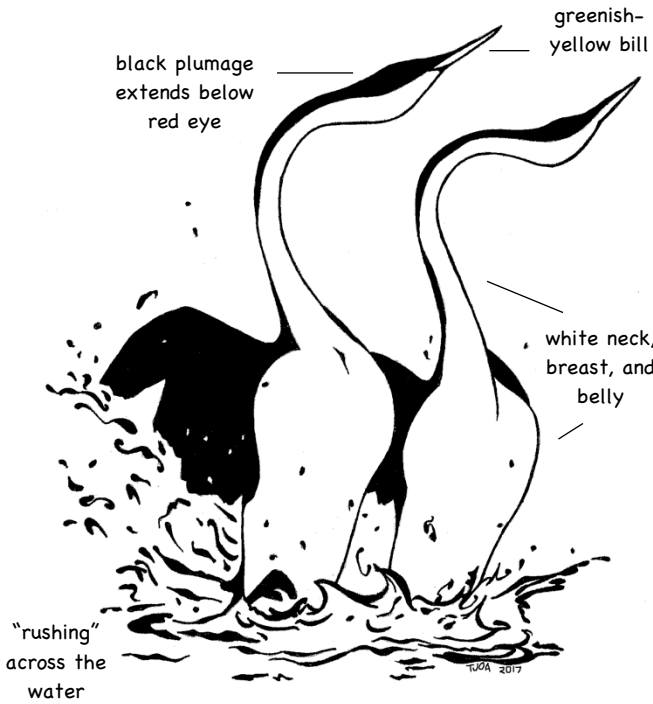
Hérons

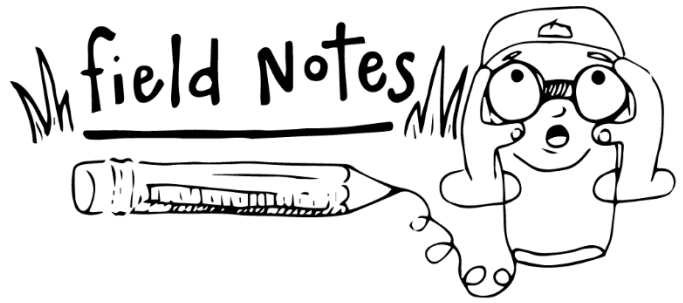
When observing a bird you are trying to identify, here are some helpful suggestions for focusing on form. Look for:

- Size and shape of the bill
- Size, shape, and proportions of the head and body
- Length and shape of the tail
- Posture when perched or shape of the wings in flight



# Can you identify these species?





date: \_\_\_\_\_

time: \_\_\_\_\_

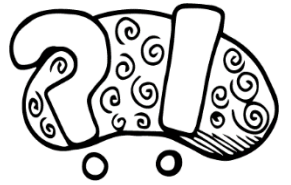
Weather: \_\_\_\_\_

location: \_\_\_\_\_  
\_\_\_\_\_

habitat: \_\_\_\_\_  
\_\_\_\_\_

behavior: \_\_\_\_\_  
\_\_\_\_\_

"fieldmarks": \_\_\_\_\_  
\_\_\_\_\_



Did you know..

1 of every 3  
bites of  
food depends  
on birds and  
bees for  
Pollination!



Take some time to sketch what bird you saw!

☆ guess or know  
the species?

what is it?  
\_\_\_\_\_  
\_\_\_\_\_

date: \_\_\_\_\_

time: \_\_\_\_\_

# field Notes



Weather: \_\_\_\_\_

location: \_\_\_\_\_

\_\_\_\_\_

habitat: \_\_\_\_\_

\_\_\_\_\_

behavior: \_\_\_\_\_

\_\_\_\_\_

"fieldmarks": \_\_\_\_\_

\_\_\_\_\_



Did You Know..

In the U.S. the biggest predator to birds is a domestic cat. Cats kill about 2.8 billion birds a year!



Take some time to sketch what bird you saw!

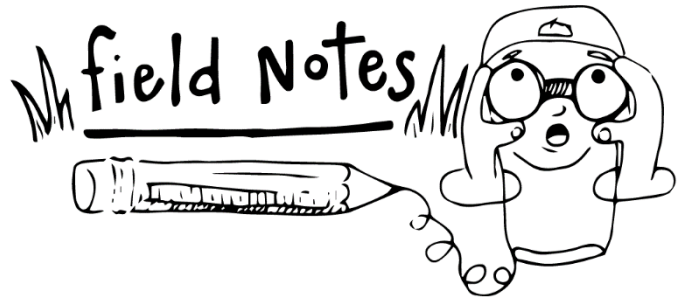
☆ guess or know the species?

what is it?

\_\_\_\_\_

date: \_\_\_\_\_

time: \_\_\_\_\_



Weather: \_\_\_\_\_

location: \_\_\_\_\_

habitat: \_\_\_\_\_

behavior: \_\_\_\_\_

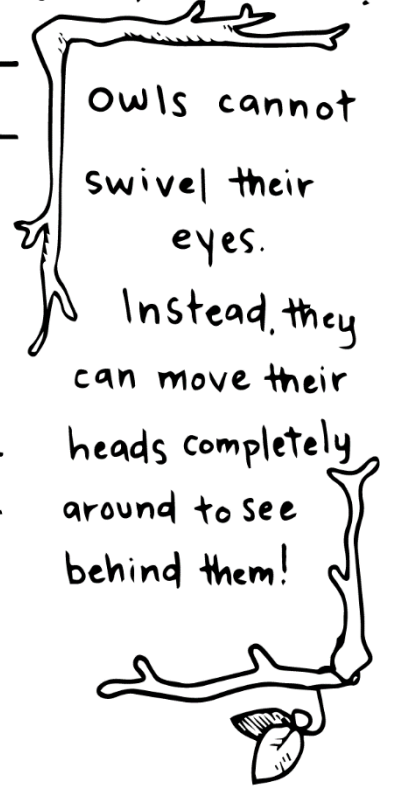
"fieldmarks": \_\_\_\_\_



Did you know..

Owls cannot swivel their eyes.

Instead, they can move their heads completely around to see behind them!



Take some time to sketch what bird you saw!

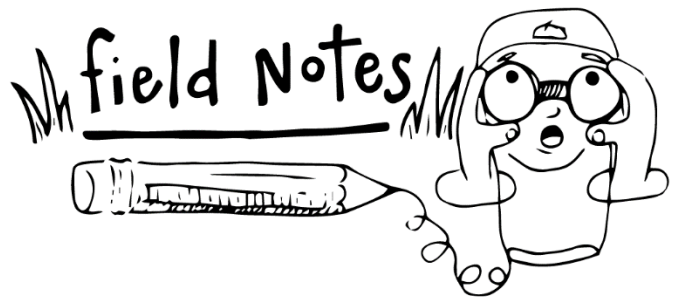
☆ guess or know the species?

what is it?

\_\_\_\_\_

date: \_\_\_\_\_

time: \_\_\_\_\_




Weather: \_\_\_\_\_

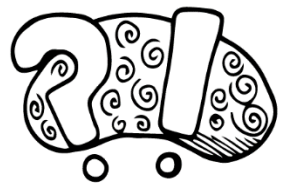
location: \_\_\_\_\_  
\_\_\_\_\_

habitat: \_\_\_\_\_  
\_\_\_\_\_

behavior: \_\_\_\_\_  
\_\_\_\_\_

"fieldmarks": \_\_\_\_\_  
\_\_\_\_\_

 Take some time to sketch what bird you saw!



Did you know..

A special arrangement of blood vessels in bird's feet, warms the blood going back to their bodies, while on frozen ground.

☆ guess or know the species?

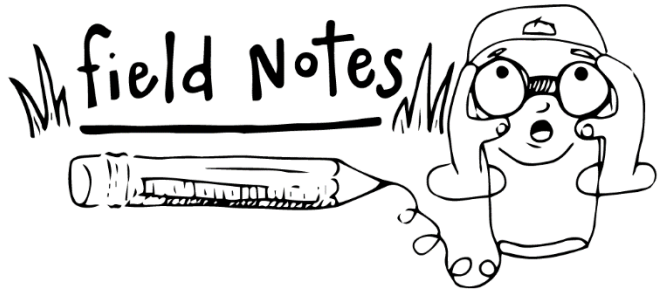
what is it? \_\_\_\_\_  
\_\_\_\_\_



date: \_\_\_\_\_

time: \_\_\_\_\_

# field Notes



Weather: \_\_\_\_\_

location: \_\_\_\_\_

habitat: \_\_\_\_\_

behavior: \_\_\_\_\_

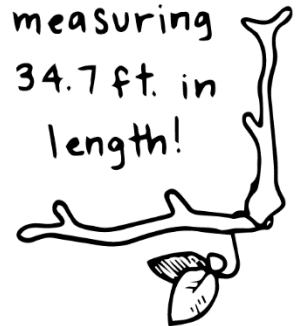
"fieldmarks": \_\_\_\_\_



Did You Know..

The longest feathers ever found belonged to a Japanese chicken

measuring 34.7 ft. in length!



Take some time to sketch what bird you saw!



☆ guess or know the species?

what is it?

\_\_\_\_\_

# Birds and Climate Change

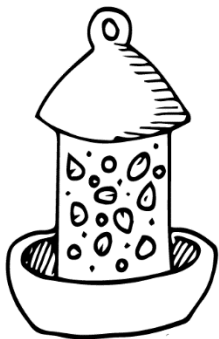
## → WORD SEARCH ←



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



## Vocabulary



adaptation  
 air  
 biodiversity  
 climate  
 Community Science  
 conservation  
 disruption  
 ecosystem  
 Field mark  
 food



greenhouse effect  
 habitat  
 hummingbird  
 indicator  
 migration  
 native plants  
 onomatopoeia  
 Phenology  
 raptor

reciprocity  
 resource  
 shelter  
 Songbird  
 Space  
 sustainability  
 water  
 weather



# Reflections




Which bird species is your favorite? What do you have in common with that bird?

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Which habitat type is your favorite? Why? Can you point out any resources around now (food, water, shelter, & space?) 

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Think of the ecosystem you just visited, consider a few of the living and nonliving parts... now imagine if those parts disappeared. How would this change the ecosystem and effect the other organisms living there?

living (bugs...etc.)

non-living (rocks... etc)

①

①

②

②

effects:

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# Abbreviated Checklist of Common Plumas County Birds...

## WATERFOWL

- Canada Goose
- Wood Duck \*CT
- Mallard \*CE
- Bufflehead \*CE
- Common Merganser \*CT

## GROUSE, QUAIL, & ALLIES

- Mountain Quail \*CT
- Wild Turkey \*CT

## LOONS & GREBES

- Western Grebe \*CE

## CORMORANTS & PELICANS

- American White Pelican \*CE

## HERONS, IBIS, & ALLIES

- Great Blue Heron
- Great Egret
- White-faced Ibis \*CE

## VULTURES, HAWKS, & ALLIES

- Turkey Vulture
- Osprey \*CE
- Bald Eagle \*CE
- Red-tailed Hawk

## RAILS, GALLINULES, & ALLIES

- American Coot

## CRANES

- Sandhill Crane \*CT

## SHOREBIRDS

- Killdeer

## GULLS & TERNS

- Ring-billed Gull \*CE

\*CT = climate threatened

\*CE = climate endangered

## PIGEONS & DOVES

- Rock Pigeon

## OWLS

- Barn Owl \*CT
- Great Horned Owl

## HUMMINGBIRDS

- Anna's Hummingbird

## KINGFISHERS

- Belted Kingfisher

## WOODPECKERS

- Acorn Woodpecker
- Hairy Woodpecker \*CT
- Northern Flicker

## FALCONS

- American Kestrel \*CT

## TYRANT FLYCATCHERS

- Black Phoebe

## VIREOS

- Cassin's Vireo

## CORVIDS

- Steller's Jay
- Black-billed Magpie \*CE
- Common Raven \*CT

## MARTINS & SWALLOWS

- Tree Swallow \*CT
- Barn Swallow

## CHICKADEES & TITMICE

- Mountain Chickadee \*CT

## NUTHATCHES

- Red-breasted Nuthatch \*CT
- White-breasted Nuthatch \*CT

## TREECREEPERS

- Brown Creeper \*CE

## WRENS

- House Wren

## THRUSHES

- Western Bluebird \*CT
- American Robin

## STARLINGS

- European Starling

## WAXWINGS

- Cedar Waxwing

## WOOD-WARBLERS

- Yellow-rumped Warbler

## SPARROWS

- Spotted Towhee
- Song Sparrow
- Dark-eyed Junco

## BLACKBIRDS

- Red-winged Blackbird
- Yellow-headed Blackbird \*CE
- Brewer's Blackbird \*CT
- Bullock's Oriole \*CT

## FINCHES & ALLIES

- House Finch \*CT
- Lesser Goldfinch

## OLD WORLD SPARROWS

- House Sparrow

