Nature Study Hacking Birds

Created by Joy Cherrick

Copyright © 2022 Joy Cherrick All rights reserved.

Cover art by Joy Cherrick Graphic Design by Katy Wallace Images of birds credit: Canva.com

Scripture quotations marked (ESV) are from the ESV® Bible (The Holy Bible, English Standard Version®), copyright © 2001 by Crossway, a publishing ministry of Good News Publishers. Used by permission. All rights reserved.

Scripture quotations marked (KJV) are taken from the Holy Bible, King James Version (Public Domain).

Scripture quotations marked (NIV) are taken from the Holy Bible, New International Version®, NIV®. Copyright © 1973, 1978, 1984 by Biblica, Inc.TM Used by permission of Zondervan. All rights reserved worldwide.

This publication is a creative work protected in full by all applicable copyright laws, as well as by misappropriation, trade secret, unfair competition and other applicable laws. No part of this book may be reproduced or transmitted in any manner without permission from Joy Cherrick, except in the case of brief quotations embodied in critical articles or reviews. All rights reserved.

Introduction to Nature Study	5
Nature Journal Prompts	21
How to Use This Book	23
Introduction to Birds Lesson 1	26
Feathers Lesson 2	28
Feathers, Continued Lesson 3	30
How Birds Fly Lesson 4	32
Birds - Reading Lesson 5	34
Perpetual Journal Entry Lesson 6	35
Migration Lesson 7	36
Eyes and Ears Lesson 8	37
Poem Lesson 9	39
Review, Improve & Delight Lesson 10	40
Beaks Lesson 11	41
Feet Lesson 12	43
Bird Song Lesson 13	44
Perpetual Journal Entry Lesson 14	45
Attracting Birds Lesson 15	46
Bird Reading Lesson 16	47
Bird Reading, Continued Lesson 17	48
Nests Lesson 18	49
Perpetual Journal Entry Lesson 19	50
Review, Improve & Delight Lesson 20	51
Chicken Lesson 21	52
Chicken, Continued Lesson 22	53
Life Cycle of Birds Lesson 23	55
My Favorite Bird Lesson 24	57
Birds Exam Week	58
Poems about Birds	59
Recourses	68

Introduction to Birds | Lesson 1

Supply list:

- 1. Nature Journal
- 2. Pencil and eraser
- 3. Field guide or book about birds

Step 1: On the next BLANK PAGE of your Nature Journal, using a ruler, set up one page chart to tally the *different* birds you spot over the course of your birds study. (For instance, the robin in your yard counts as ONE tally mark even if you spot him 30 times over the course of your study.) Be sure to leave extra spaces at the bottom for you to add birds that you see unexpectedly. The chart will look something like the one on the next page.

Step 2: Now that you have your chart, fill in the birds that you know live nearby on the left column. If you go to the zoo or get to see other types of birds in person over the course of your study, you will want to add them to your birds chart!

Step 3: Choose ONE location that you will watch from a window over the course of your birds study. Set up a bird feeder there. Write down the common and Latin name of the birds who visit.

Note: Recommended Books: Reader's Digest Book of North American Birds and The Folklore of Birds

Feathers | Lesson 2

Supply List:

- 1. Nature Journal
- 2. Pencil and eraser
- 3. Photograph of a hen

Leading Thought: Feathers grow from the skin of a bird and protect the bird from rain, snow, wind and cold. Some feathers act as a coat, keeping the elements out, and others act as underclothing.

Method: Using a photograph of a hen, answer the following questions. If you have access to a live hen, that is even better:

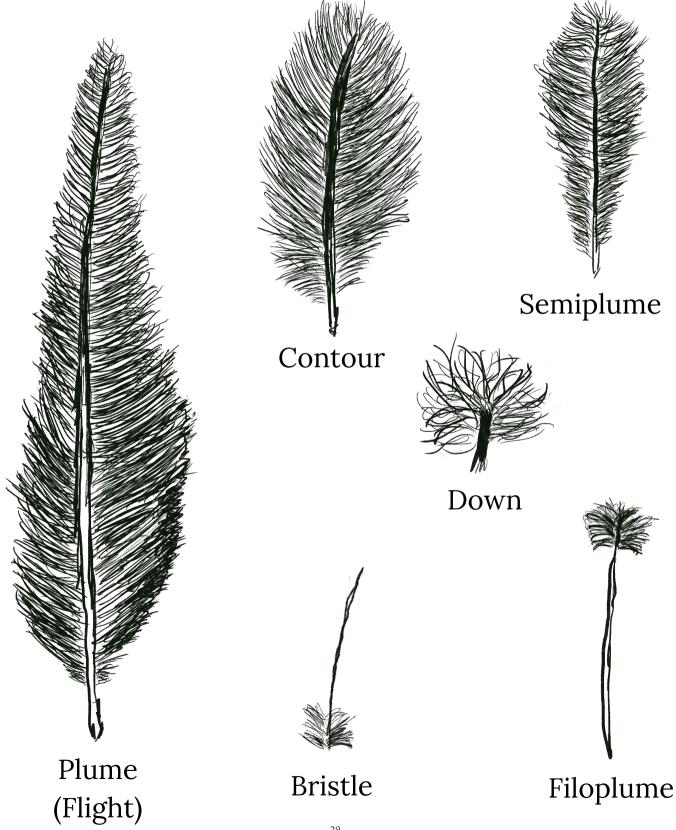
Step 1: How are the feathers arranged on the back of the hen? Are they like shingles on a roof? How are the feathers arranged on the breast? What is a pinfeather? Why do you think it is so called? How do hens keep their feathers oily and glossy so they will shed water? Where does the hen get the oil?

Step 2: Taking time to do your best work, draw the breast feather, tail feather and wing feather of a hen into your Nature Journal. (See next page for line drawings to copy into your journal.)

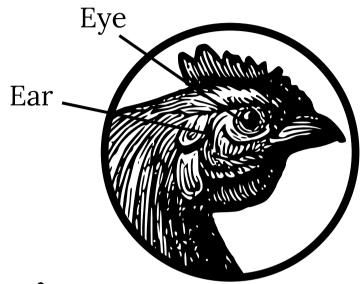
Younger students: For very young students, Parents/Teachers should help the child pick ONE feather to copy into their journal.

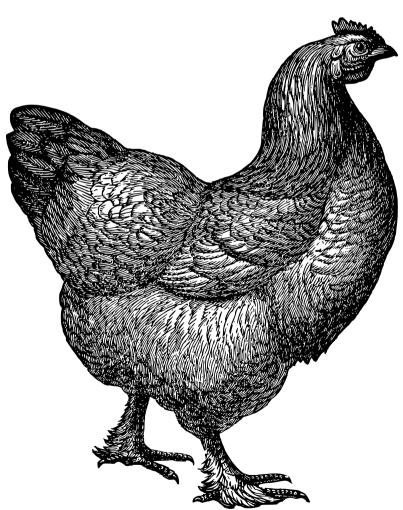
Note: This lesson may take two days to complete if students take care to draw their feathers. Keep the lesson to less than 20 minutes.

Types of Chicken Feathers

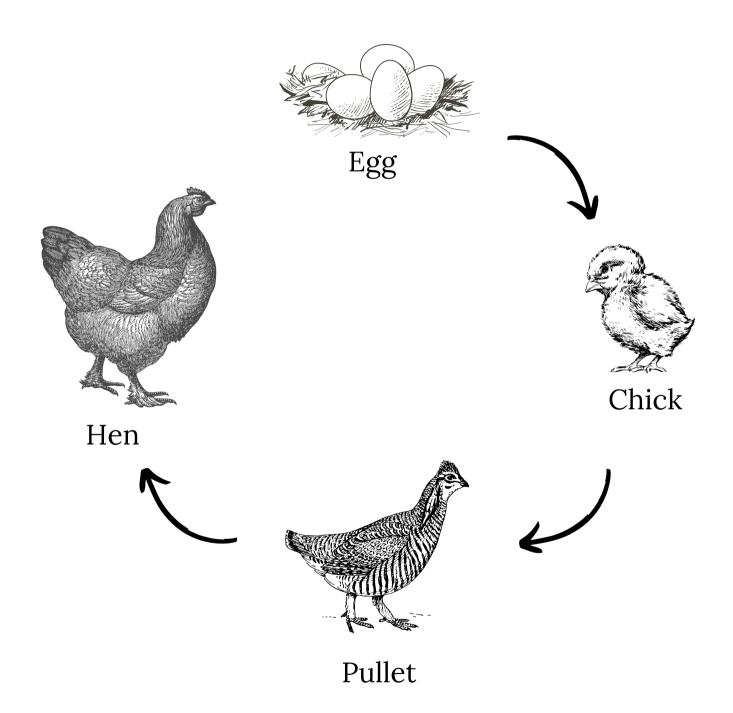


Chicken Eyes and Ears





Chicken Life Cycle



Poems about Birds

Bird Song

by Laura E. Richards

The robin sings of willow-buds,
Of snowflakes on the green;
The bluebird sings of Mayflowers,
The crackling leaves between;
The veery has a thousand tales
To tell to girl and boy;
But the oriole, the oriole,
Sings, "Joy! joy! joy!"

The pewee calls his little mate,
Sweet Phoebe, gone astray,
The warbler sings,
"What fun, what fun,
To tilt upon the spray!"
The cuckoo has no song, but clucks,
Like any wooden toy;
But the oriole, the oriole,
Sings, "Joy! joy! joy!"

The grosbeak sings the rose's birth,
And paints her on his breast;
The sparrow sings of speckled eggs,
Soft brooded in the nest.
The wood-thrush sings of peace, "Sweet peace,
Sweet peace," without alloy;
But the oriole, the oriole,
Sings "Joy! joy! joy!"

Daybreak

by Henry Wadsworth Longfellow

A wind came up out of the sea, And said, "O mists, make room for me."

It hailed the ships and cried, "Sail on, Ye mariners, the night is gone."

And hurried landward far away Crying "Awake! it is the day."

It said unto the forest, "Shout! Hang all your leafy banners out!"

It touched the wood-bird's folded wing, And said, "O bird, awake and sing."

And o'er the farms, "O chanticleer, Your clarion blow; the day is near."

It whispered to the fields of corn, "Bow down, and hail the coming morn."

It shouted through the belfry-tower, "Awake, O bell! proclaim the hour."

It crossed the churchyard with a sigh, And said, "Not yet! In quiet lie."

Resources

Nature Study Essentials:

<u>Handbook of Nature Study</u> by Anna Comstock <u>Nature Anatomy</u> by Julia Rothman

Nature Lore Book List:

NatureStudyHacking.com/Birds

Reference books about Birds:

Reader's Digest Book of North American Birds

Nature Drawing help for early elementary:

How to Draw Almost Everything by Chika Miyata

PNEU Articles on Nature Study as inspiration:

https://www.amblesideonline.org/PR/PR07p332NaturalHistory.shtmlhttps://www.amblesideonline.org/PR/PR41p000CharmNatureStudy.shtml

Handbook of Nature Study:

Birds, p. 27-143

YouTube Playlist:

https://youtube.com/playlist?list=PLVJk-S6aGim6JBXfKVnKJKR7xZ89ZK6-Z

Supply List:

- 1. Blank Journal -- Minimalism Art sketchbook or Dot grid notebook (This my favorite brand)
- 2. Ticonderoga pencils and an eraser
- 3. Prismacolor colored pencils (preferred for younger children)
- 4. Field guide to birds in your area
- 5. Book about the birds
- 6. Audubon App for learning about birds on the go
- 7. Merlin App for identifying birds by song

Books in the Nature Study Hacking Series

Nature Study Hacking: Trees

Nature Study Hacking: Stars & Skies

Nature Study Hacking: Mammals

Nature Study Hacking: Weather

Nature Study Hacking: Cultivated Crops & Weeds

Nature Study Hacking: Insects

Nature Study Hacking: Birds

Get updates about when we release new books by signing up at

NatureStudyHacking.com

#naturestudyhacking

Terms of Use:
Copyright © Joy Cherrick
All rights reserved.
You may not create anything to sell or share based on this product.
This product is for one teacher use only.
All poems used herein are in the public domain.
Designed and formatted by Joy Cherrick.

The downloadable version of this document contains affiliate links