



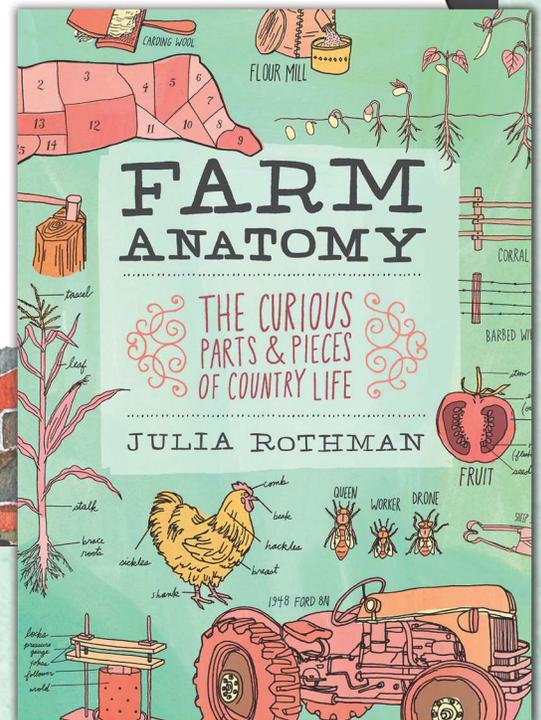
For Grades 3 & Up



FARM

Companion Guide for *FARM ANATOMY*

Ignite an interest in science
as students record their discoveries!



Farm Notebook

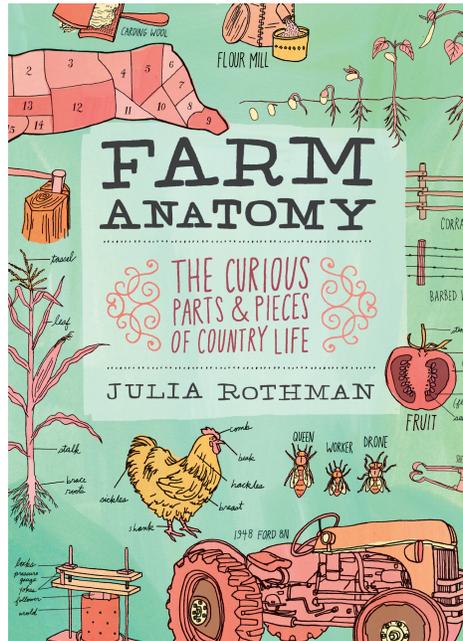
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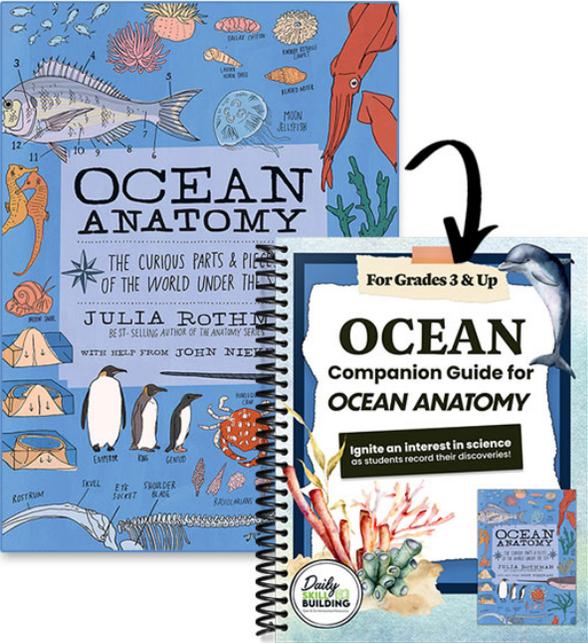
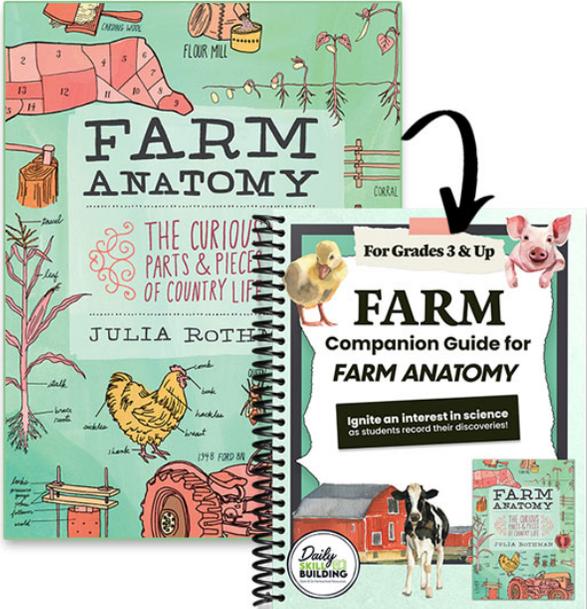
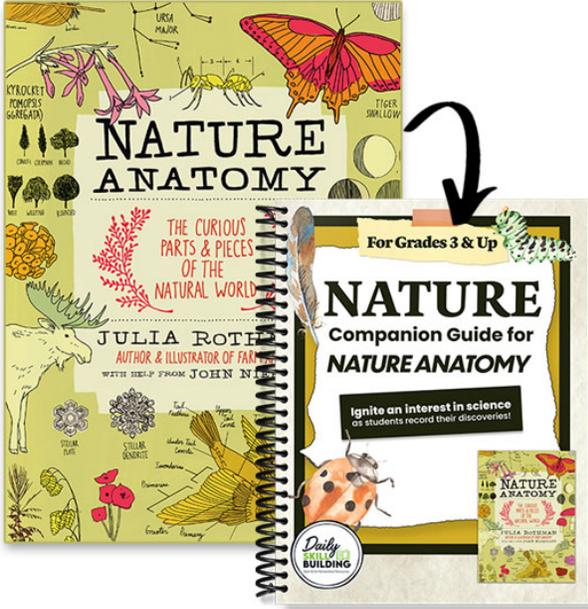
See the world in a whole new way! Acclaimed illustrator Julia Rothman combines art and science in this exciting and educational guide to the structure, function, and personality of the natural world. Explore the anatomy of a jellyfish, the inside of a volcano, monarch butterfly migration, how sunsets work, and much more. Rothman's whimsical illustrations are paired with interactive activities that encourage curiosity and inspire you to look more closely at the world all around you.

Learn more: <https://www.storey.com/books/farm-anatomy/>

Julia Rothman Companion Notebook Series

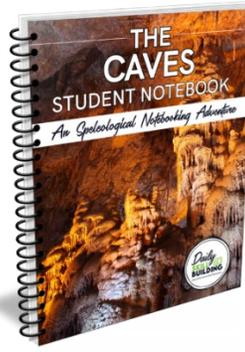
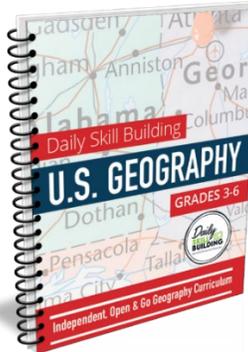
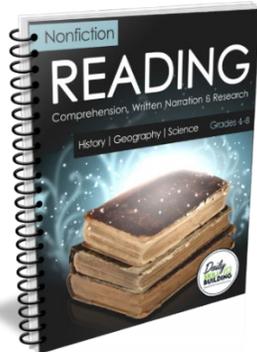
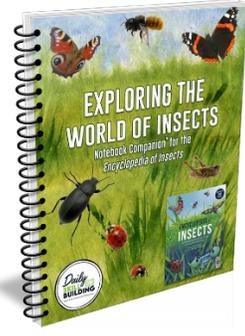
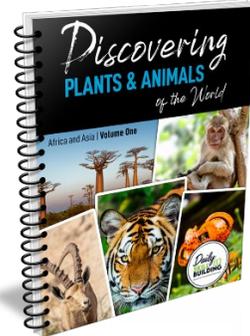
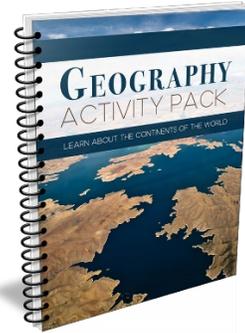
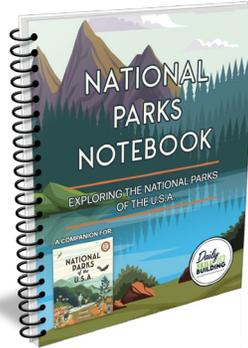
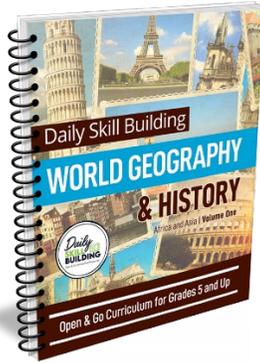
Follow along with the topics in the Julia Rothman Collection using written narration, drawing, labeling, and more with our companion notebooking journals.

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CHAPTER ONE

BREAKING GROUND

In this chapter of *Farm Anatomy*, you will learn about the layers of the soil, the makeup of topsoil, soil texture, crop rotation, soil conservation, weather, composting, and more.

CHAPTER ONE PARENT NOTES

Use this space to write down any field trip ideas or activities you'd like to add to your studies.

A large, empty rectangular box with a thin grey border, intended for writing parent notes. A large, light grey watermark reading "SAMPLE" is diagonally overlaid across the box.

Choose one of the examples of crop rotation shown on page 15 of *Farm Anatomy* and illustrate it below. Be sure to label it.



Read pages 16-17 of *Farm Anatomy* and fill in the blanks below with the information you learn.

What three ways to prevent soil erosion are given?

1. _____
2. _____
3. _____

Explain how each of these methods work.

WEATHER

Read pages 18-19 of *Farm Anatomy* and fill in the blanks with the information you learn.

What three indicators for predicting stormy weather are given?

1. _____

2. _____

3. _____

Explain what each indicator predicts and how it predicts stormy weather.

Read pages 26-28 of *Farm Anatomy*. Illustrate five types of barn doors and explain the advantages of each one. (Advantages of one type are not given in the book, but what advantages do you see in this common type of door?)

Hinged Double Door

--

Sliding Door

--

Hinged Single Door

--

Overhead Door

--

OTHER FARM STRUCTURES

Read pages 30-31 of *Farm Anatomy*. What are the five structures that are mentioned?

1. _____
2. _____
3. _____
4. _____
5. _____

Illustrate and explain the purpose of each structure. For the last structure, illustrate how the water is pumped, stored, and delivered.

1.	
2.	

CHICKEN COOPS

Read pages 32-35 of *Farm Anatomy* and fill in the blanks below with the information you learn.

What are the three essential parts of a chicken coop?

1. _____
2. _____
3. _____

What are common predators of chickens? _____

How many square feet of space should each bird have?

What is an advantage to having a portable chicken coop?

There are many pieces in a chicken coop. Illustrate each one and explain why it is needed or how it works.

Nesting box

Read pages 42-43 of *Farm Anatomy*. Fill in the blanks below with the information you learn.

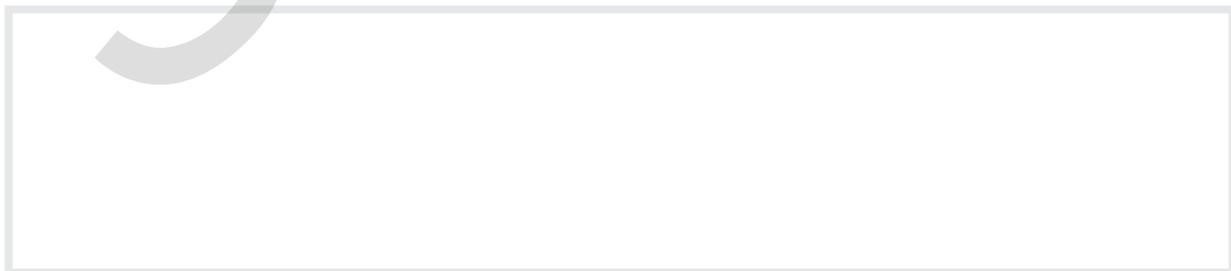
What are the four common types of pasture fencing mentioned?

1. _____
2. _____
3. _____
4. _____

What are the advantages or requirements for each type?

1. _____
2. _____
3. _____
4. _____

Illustrate and label each type of fencing below.



TRACTORS

Read pages 46-51 of *Farm Anatomy* and fill in the blanks with the information you learn.

Why is a tractor usually considered the most important piece of equipment on a farm?

Illustrate the parts of a tractor and the implements shown on page 46. Be sure to label each one.

MAKING HAY

Read pages 52-55 of *Farm Anatomy* and fill in the blanks below with the information you learn.

Illustrate the four types of grasses shown on page 52.

Timothy Grass	Orchard Grass	Clover	Alfalfa

What are the first two steps in harvesting hay?

1. _____
2. _____

Illustrate a sickle mower and hay rake. Be sure to label the parts.

Sickle Mower

Hay Rake

Square Bale	Round Bale

What is the job of a hay fork?

What is the job of a hay elevator?

Illustrate a hay fork and a hay elevator below.

Hay Fork	Hay Elevator

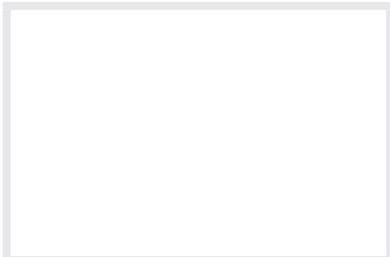
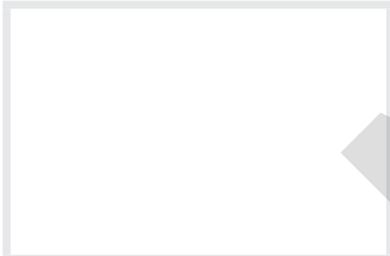
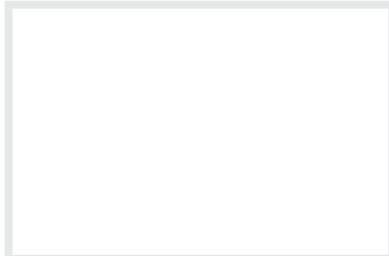
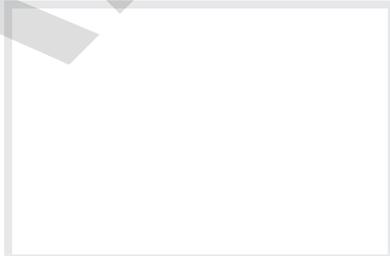
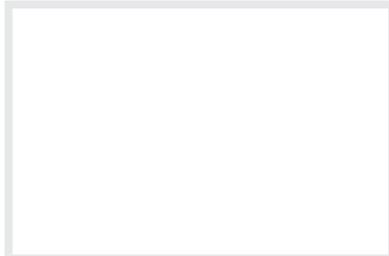
Define the following words related to wood stacking:

Stringers: _____

Cribbing: _____

Cord: _____

Illustrate the nine types of trees shown on page 63.

 Ash	 Beech	 Black Locust
 Douglas Fir	 Hickory	 Loblolly
 Northern Red Oak	 Red Cedar	 White Birch

Look at the variety of tools pictured on pages 64-65 of *Farm Anatomy*. Choose as many of them as you like and illustrate them on the following page. Be sure to label each one that you draw.

FARM PRODUCE

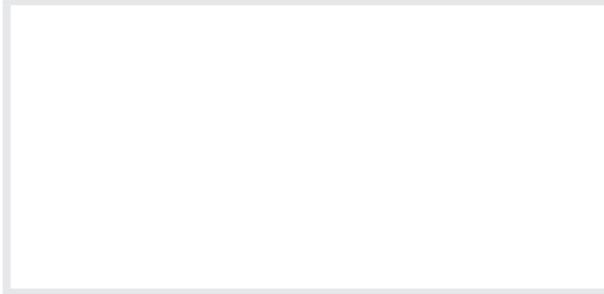
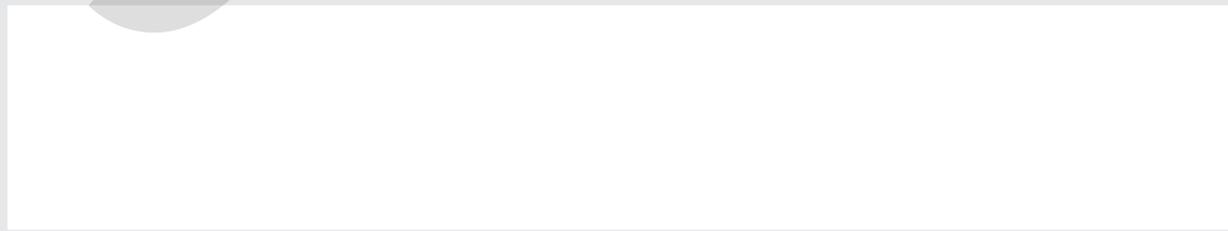
Read pages 68-77 of *Farm Anatomy* and fill in the blanks with the information you learn.

If you live in the United States, according to the map on page 68, what are the average dates of the last spring frost where you live?

If you live in the United States, according to the map on page 69, what are the average dates of the first autumn frost where you live?

Where do beets grow best?

Illustrate and label a garden beet and sugar beet below. Record at least two more facts about beets.

Garden Beet	Sugar Beet
	
	

BEANS, POTATOES, TOMATOES, AND MORE

Read pages 78-93 of *Farm Anatomy* and fill in the blanks with the information you learn.

Illustrate beans and peas below and record what you learn about each one. Then illustrate how a bean grows.

Beans	Peas
How a Bean Grows	

What are the five steps to building a bean teepee?

1. _____
2. _____
3. _____
4. _____
5. _____

Choose a few of the tomato varieties and illustrate them below.
Be sure to label each one.



What are the six steps to canning tomatoes?

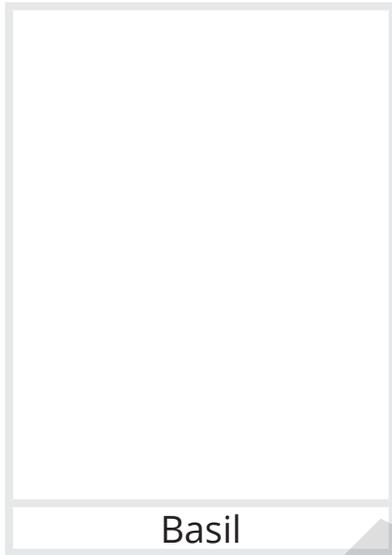
1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

Why are carrots bright orange? _____

HERBS, GRAINS, APPLES, AND BUGS

Read pages 94-105 of *Farm Anatomy* and fill in the blanks with the information you learn.

Illustrate the twelve types of herbs shown.



Basil



Dill



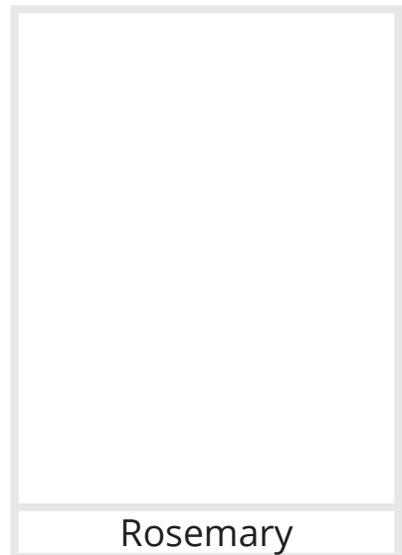
Oregano



Chives



Marjoram



Rosemary

DEFINE THE PARTS OF A WHEAT BERRY:

Endosperm: _____

Bran: _____

Germ: _____

DEFINE THE TYPES OF WHEAT LISTED BELOW:

Durum: _____

Hard red spring: _____

Hard red winter: _____

Soft red winter: _____

Hard white: _____

Soft white: _____

Explain how to plant an orchard for cross-pollination:

CATTLE

Read pages 122-131 of *Farm Anatomy* and fill in the blanks with the information you learn.

DEFINE THE FOLLOWING TERMS RELATED TO BEEF ANIMALS:

bucket calf: _____

bull: _____

calf: _____

calving: _____

cow: _____

dogie: _____

freshen: _____

heifer: _____

open: _____

springer: _____

steer: _____

weanling: _____

yearling: _____

On the next page, illustrate and label the parts of a beef cow.

How is a horse measured? _____

How tall is the average riding horse? How tall is the typical draft horse?

Illustrate six breeds of draft horses and write what you learn about each one.

American Cream	
Belgian	
Clydesdale	

MEAT

Read pages 186-199 of *Farm Anatomy* and fill in the blanks below with the information you learn.

Choose as many of the butchering tools as you like from page 186 of *Farm Anatomy* and illustrate them below. Be sure to label them.



What are the eight basic steps to cutting up a chicken?

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

MAKING AND DYEING YARN

Read pages 208-211 of *Farm Anatomy* and fill in the blanks below with the information you learn.

Explain what carding is. _____

Explain what a drum carder does. _____

What are the five basic steps of carding wool?

1. _____
2. _____
3. _____
4. _____
5. _____

On the following page, illustrate and label the parts of a spinning wheel.