



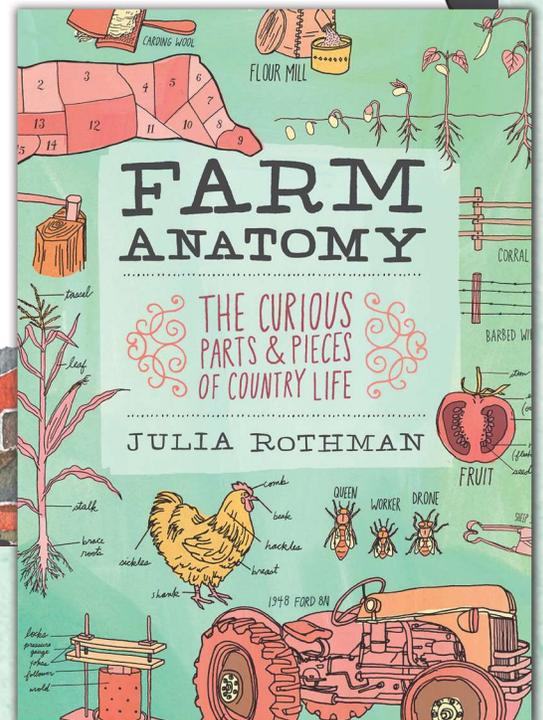
**For Grades 3 & Up**



# FARM

## Companion Guide for *FARM ANATOMY*

**Ignite an interest in science**  
as students record their discoveries!



***Farm Notebook***

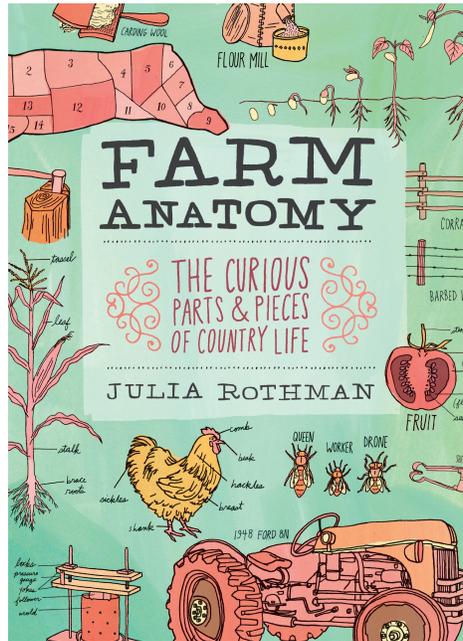
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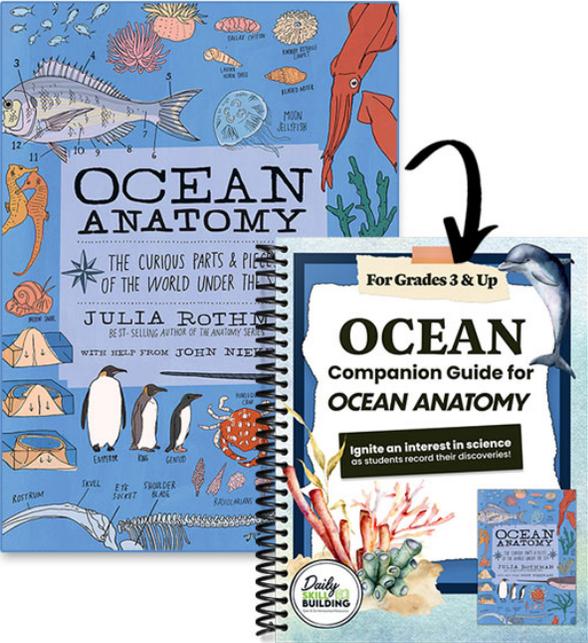
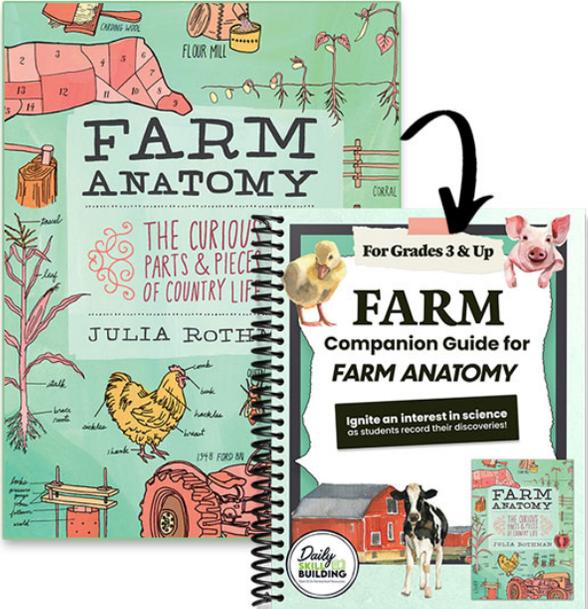
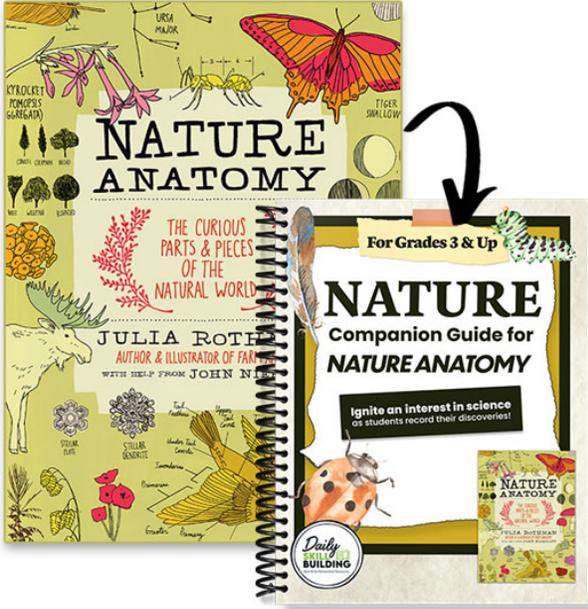
See the world in a whole new way! Acclaimed illustrator Julia Rothman combines art and science in this exciting and educational guide to the structure, function, and personality of the natural world. Explore the anatomy of a jellyfish, the inside of a volcano, monarch butterfly migration, how sunsets 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

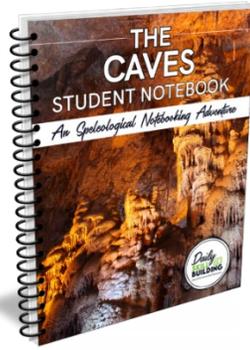
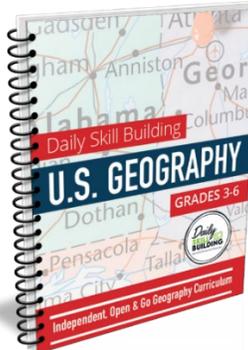
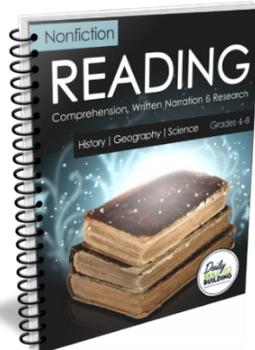
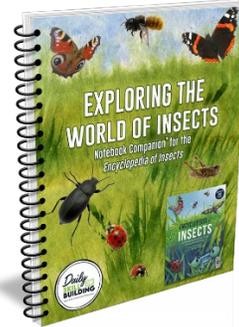
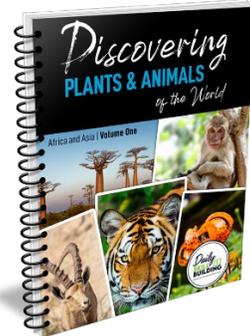
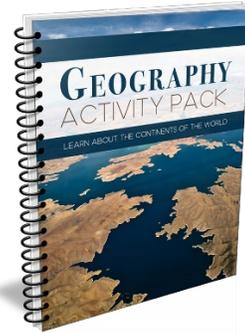
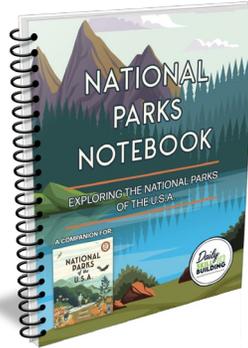
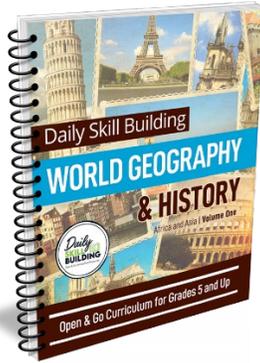
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# CHAPTER ONE

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## 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.

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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?)

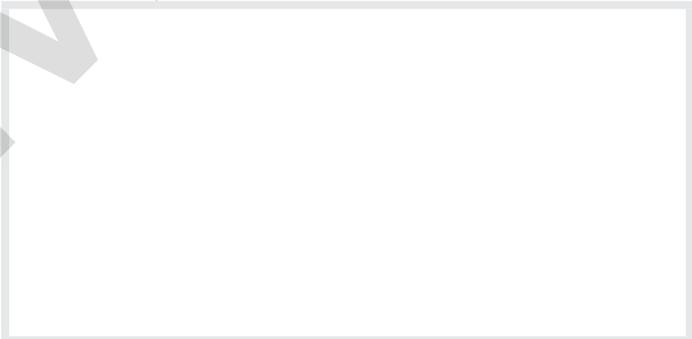
Hinged Double Door



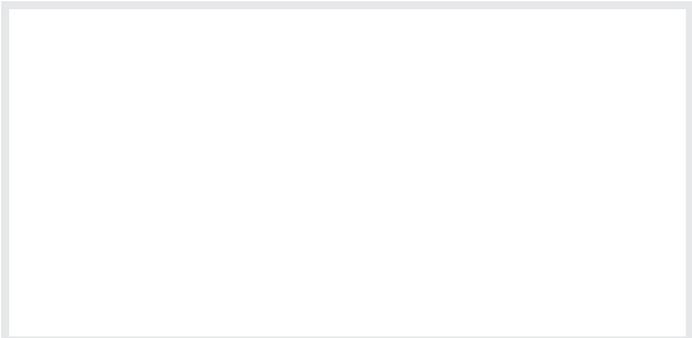
Sliding Door



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.

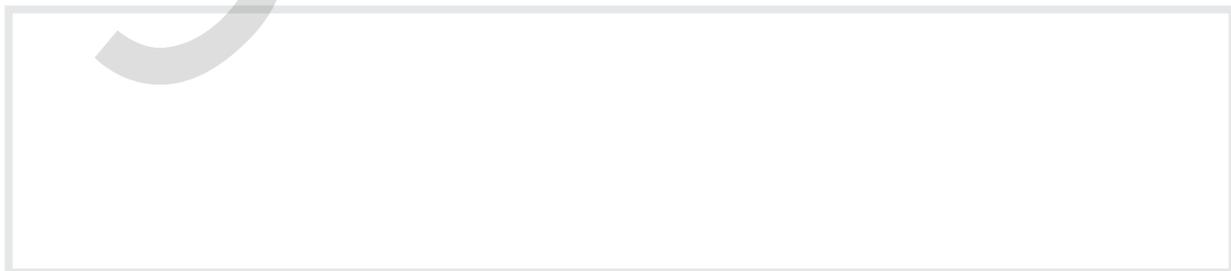
What are the four common types of pasture fencing mentioned?

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

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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?

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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?

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What is the job of a hay elevator?

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Illustrate a hay fork and a hay elevator below.

Hay Fork	Hay Elevator

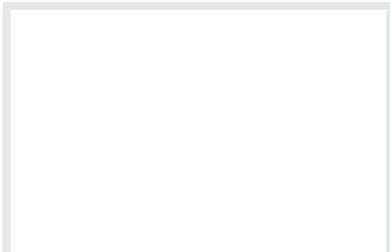
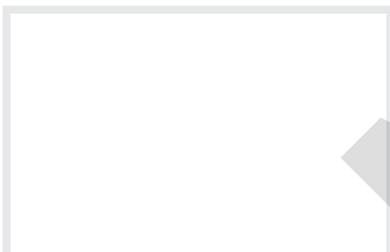
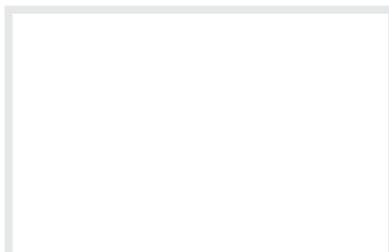
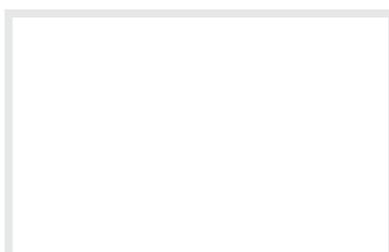
Define the following words related to wood stacking:

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?

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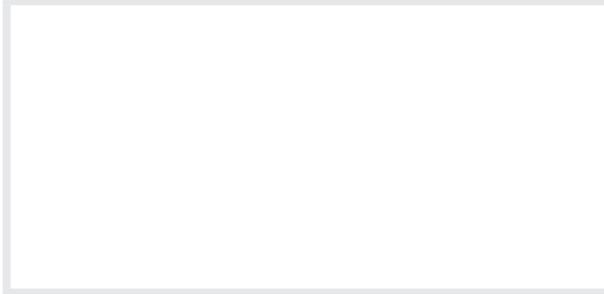
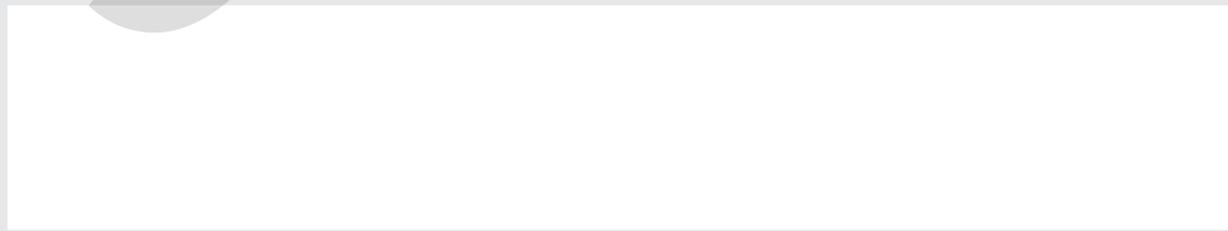
If you live in the United States, according to the map on page 69, what are the average dates of the first autumn frost where you live?

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Where do beets grow best?

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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?

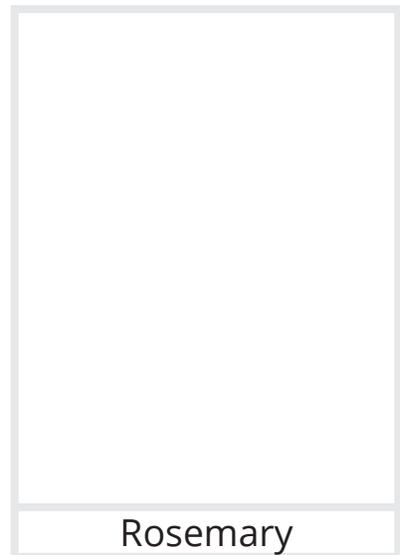
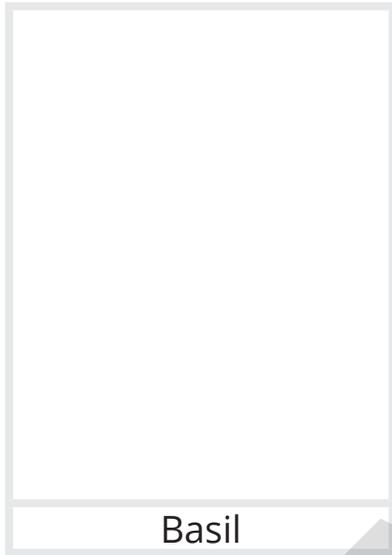
1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

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.



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.