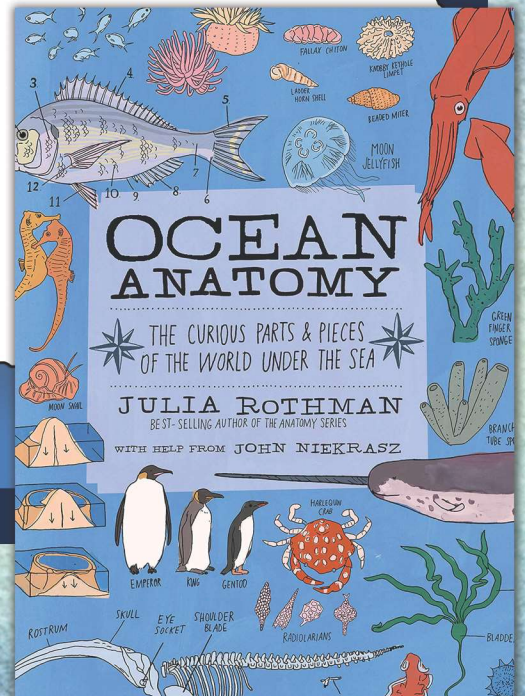


For Grades 3 & Up

OCEAN

Companion Guide for OCEAN ANATOMY

Ignite an interest in science
as students record their discoveries!



Ocean Notebook

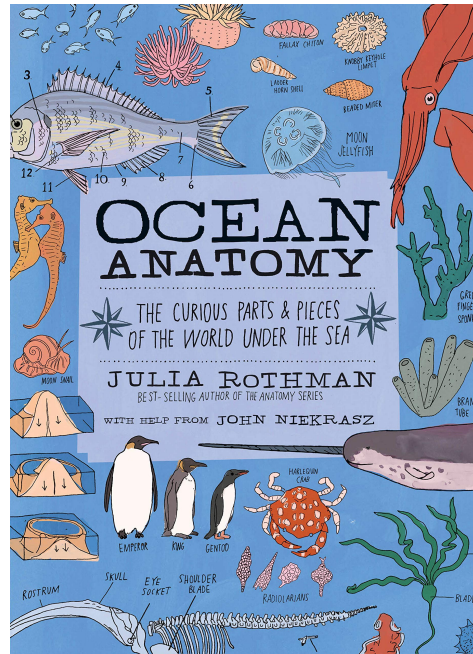
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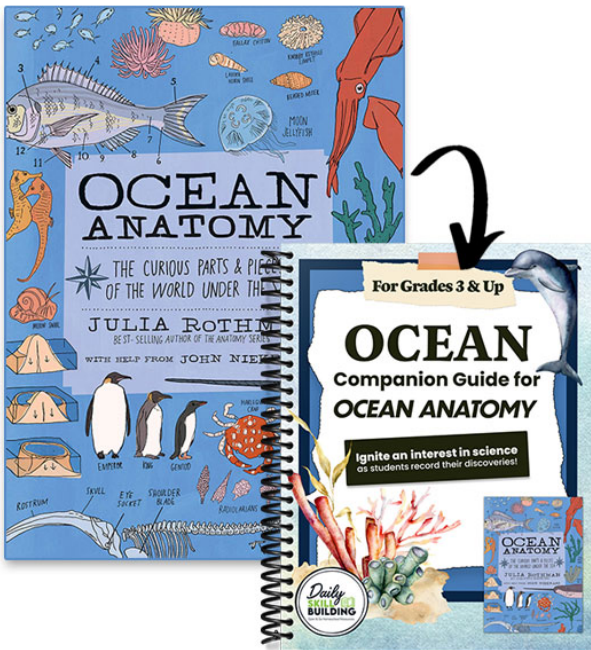
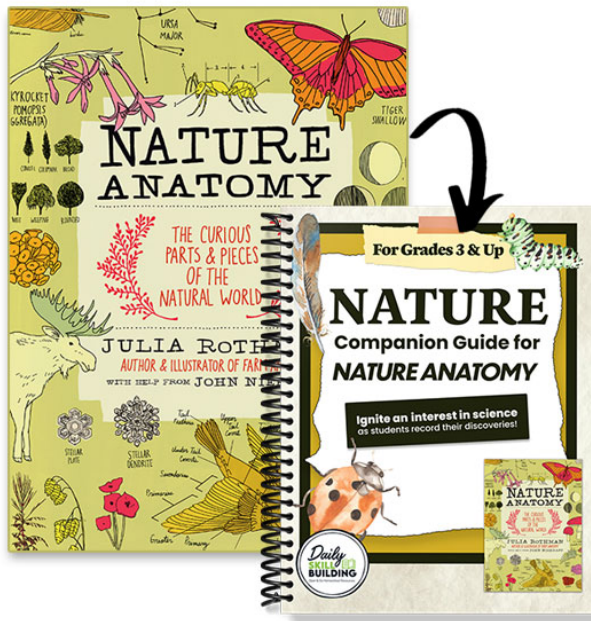
See the world in a whole new way! Acclaimed illustrator Julia Rothman combines art and science in this exciting and educational guide to the structure, function, and personality of the natural world. Explore the anatomy of a jellyfish, the inside of a volcano, monarch butterfly migration, how sunsets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

Julia Rothman Companion Notebook Series

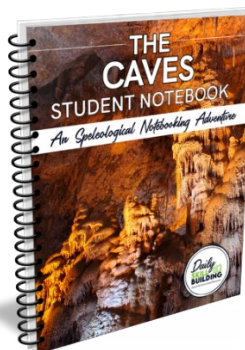
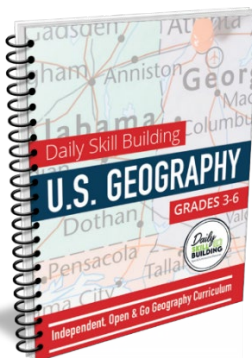
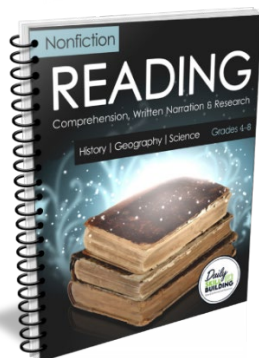
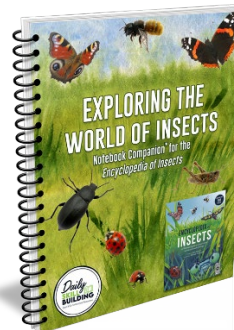
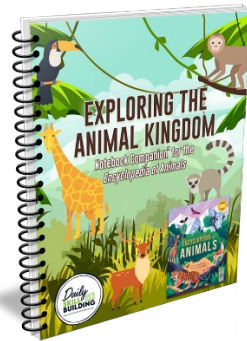
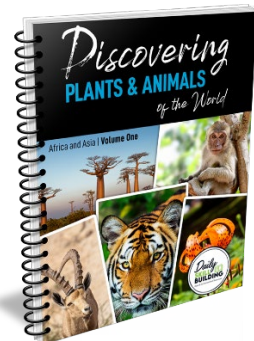
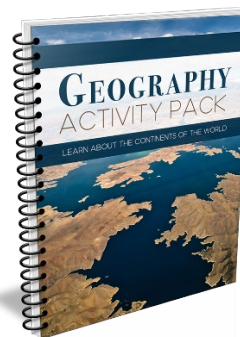
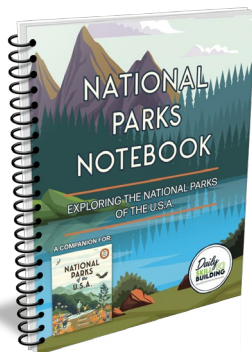
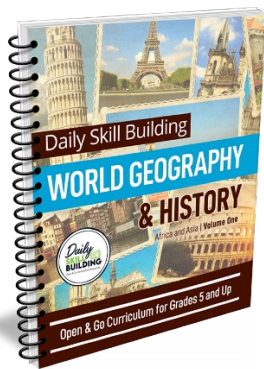
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CHAPTER ONE

A DROP IN THE OCEAN

Learn about the speed of sound in the ocean, features of the ocean floor, layers of the ocean, 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.



OCEANS OF THE WORLD

Read pages 13-27 of *Ocean Anatomy* and answer the questions with what you learned.

Draw the diagram of the colors of light on page 13 and how they are affected at various depths, causing the ocean to appear blue.



Read pages 14-15 of *Ocean Anatomy* and record the facts you learned about each of the world's oceans.

Atlantic Ocean

Draw the diagram of the ocean floor on pages 20-21. Be sure to label each feature. Then answer the questions with what you learned.



What is the study of the underwater depth and features of the ocean floor (as well as rivers, streams, and lakes) called?

What is a seamount? _____

What is a guyot or tablemount? _____

Read page 27 of *Ocean Anatomy*. Draw the diagram showing the zones of the ocean. Be sure to label the diagram. Record an alternate name and at least one fact about each zone.



Sunlight or _____ Zone

Twilight or _____ Zone

Midnight or _____ Zone

Abyss or _____ Zone

Trenches or _____ Zone

Summarize what you learned about schooling fish.

Draw the types of predatory fish shown on pages 38-39 and record the length of each one.

Wahoo	
Great Barracuda	
Blue Marlin	

SHARK

Read pages 40 and 42-45 of *Ocean Anatomy* and answer the questions with what you learned.

Illustrate and label the parts of a shark.



Record four facts about shark gills, skeletons, buoyancy, and ribs.

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

RAYS, JELLYFISH, AND DEEP SEA CREATURES

Read pages 46-48 and 50-55 of *Ocean Anatomy* and answer the questions with what you learned.

List six facts you learned about rays.

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

Draw the six types of rays found on page 47.

Electric Ray	
Guitarfish	

Describe what echolocation is and how dolphins use it.

How do dolphins communicate with each other?

What does a dolphin's diet usually consist of?

Draw the thirteen dolphin species shown on pages 70-71 of *Ocean Anatomy*.



Spotted



Dusky

SAND

Read pages 80-83 of *Ocean Anatomy* and answer the questions with what you learned.

Illustrate the four types of sand you learned about and record key facts about each type.

Coral			

Volcanic Rock		

TIDE POOLS AND SEASHELLS

Read pages 84-91 of *Ocean Anatomy* and answer the questions with what you learned.

How do filter feeders eat? _____

Label and illustrate the three types of filter feeders shown on page 84.

Draw the types of tide pool animals shown on page 85 and record what each one likes to eat. You'll find a picture of a gull on page 87.

Giant Green Anemone	Ochre Sea Star	Striped Shore Crab

SEAWEED, BARNACLES, AND CLAMS

Read pages 92-98 of *Ocean Anatomy* and answer the questions with what you learned.

Where does seaweed grow the best? _____

Why are seaweeds often considered plants? Why are they not truly plants?

How are seaweeds categorized? What are the three categories?

Draw the illustration of bull kelp below. Draw a line from each term to the corresponding part in your picture and write the purpose of each part.



blades: _____

bladder: _____

stipe: _____

hodfast: _____

Where do barnacles usually live? How do they feed? _____

What other animals are barnacles closely related to? _____

Draw the three types of barnacles shown on page 96.

<i>Balanus crenatus</i>	Goose Barnacles	Titan Acorn

Illustrate the four stages of a barnacle's life cycle below and record information about the nauplius and cypris stages.

Early Stage Nauplius	Late Stage Nauplius	Cypris	Settlement

Nauplius: _____

Cypris: _____

SHOREBIRDS AND FISH

Read pages 99-105 of *Ocean Anatomy* and answer the questions with what you learned.

Draw the shorebirds shown on pages 99-101 and record key information about them.

Glossy Ibis	
Green Heron	
Roseate Spoonbill	

SEA CUCUMBERS AND OCEAN LIFE

Read pages 115-117 of *Ocean Anatomy* and answer the questions with what you learned.

What type of animals are sea cucumbers?



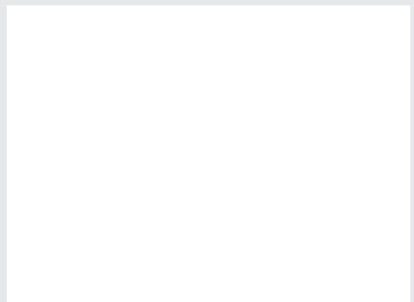
List three facts you learned about sea cucumbers:

1.


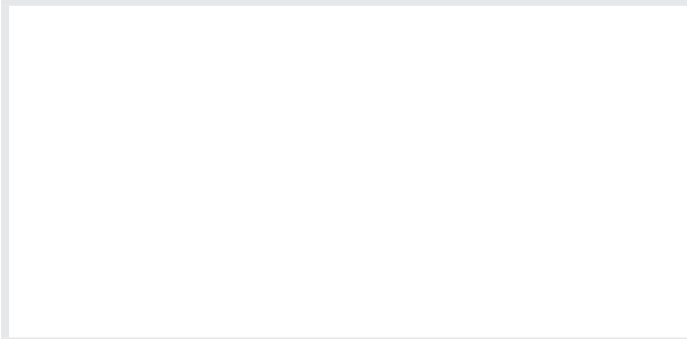
2.

3.

Draw the three types of sea cucumbers shown on page 115 of *Ocean Anatomy*.

Yellow Sea Cucumber	Johnson's Sea Cucumber	Leopard Sea Cucumber
		

Draw a tripod fish and write what you learned about it.

<p>Tripod Fish</p> 	
--	--

SEA TURTLES AND MIGRATIONS

Read pages 132-139 of *Ocean Anatomy* and answer the questions with what you learned.

Illustrate the differences between the seven types of sea turtles as shown on page 132. Also note the average size of each kind and what it feeds on (found on page 133).

Kemp's Ridley	
Olive Ridley	
Flatback	

SEAHORSES, SEA SPONGES, SEAGRASSES, AND MORE

Read pages 152-157 of *Ocean Anatomy* and answer the questions with what you learned.

Illustrate and label the parts of a seahorse.



What do seahorses have instead of scales? _____

What do seahorses like to eat? _____

SEA ICE AND LIFE UNDER THE ICE

Read pages 160-165 of *Ocean Anatomy* and answer the questions with what you learned.

Illustrate the types of sea ice shown and record a key fact about each type.

PENGUINS AND POLAR BEARS

Read pages 172-178 of *Ocean Anatomy* and answer the questions with what you learned.

Where do most penguins live? _____

How many penguins can be in a single colony? _____

How do penguins do in the air? How are they at walking? How are they at swimming?

What keeps penguins warm and buoyant? _____

Using a dictionary, write the definition of *buoyant*. _____

What is a penguin's coloration? Why is this coloration important?

How do penguins maneuver on smooth ice? _____

EXPLORATION

Read pages 192-193 of *Ocean Anatomy* and answer the questions with what you learned.

Why are deep sea submersibles necessary? _____

What is *Alvin*? What are some of its jobs? _____

Illustrate and label *Alvin* below.

