

**TARGET VOCABULARY**

**exact**

**discovered**

**remove**

**growled**

**amazed**

**explained**

**guard**

**souvenirs**

Vocabulary  
Reader



Context  
Cards



# Vocabulary in Context

- Study each **Context Card**.
- Make up a new sentence that uses a Vocabulary word.

1

**exact**

The map showed the **exact** place to dig for old bones.



2

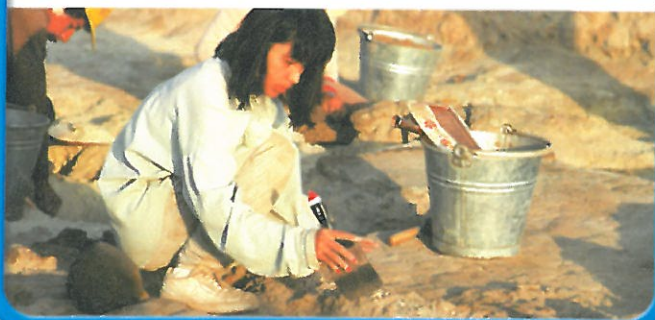
**discovered**

This old shark's tooth was **discovered** on a beach. It was found by a scientist.



3 **remove**

This scientist uses a brush to gently **remove**, or take away, sand.

4 **growled**

The dog **growled** and barked as it dug up the old bone.

5 **amazed**

The girl was **amazed** at the size of the dinosaur teeth in the museum.

6 **explained**

The man **explained**, or told, about the dinosaur.

7 **guard**

A **guard** makes sure no one touches anything in the museum.

8 **souvenirs**

He bought **souvenirs** to remember his day at the museum.



# Background



## TARGET VOCABULARY

**Fossil Hunting** Scientists have **discovered** fossils in many places. They collect fossils, they note its **exact** location. The fossil may then be placed in a museum under the watchful eyes of a **guard**. Museum visitors are **amazed** when they see a bone, tooth, or footprint of an animal that walked the earth millions of years ago!

### Lyme Regis, England



Mary Anning and her dog found dinosaur bones in Lyme Regis, England. She **explained** that her dog **growled** when it first saw the fossil.

# Comprehension



**TARGET SKILL**

## Fact and Opinion

A fact is something that can be proved to be true or false. An opinion is what someone believes or feels. In *The Dog That Dug for Dinosaurs*, you will read facts about what Mary and her dog find. You'll also read people's opinions about them. Keep track of facts and opinions in a chart like this one.

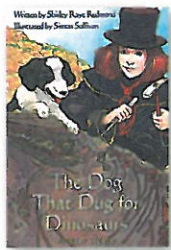



**TARGET STRATEGY**

## Question

Ask yourself questions before, during, and after you read *The Dog That Dug for Dinosaurs*. Use the answers to find out if the author is stating a fact or an opinion.

## Main Selection



### TARGET VOCABULARY

exact            amazed  
discovered    explained  
remove        guard  
growled        souvenirs



### TARGET SKILL

**Fact and Opinion** Tell if an idea can be proved or is a feeling.




### TARGET STRATEGY

**Question** Ask questions about what you are reading.

### GENRE

A **biography** tells about events in a person's life.

### MEET THE AUTHOR

## Shirley Raye Redmond

At her home in New Mexico, Shirley Raye Redmond begins her day by waking up early and watching the many birds that come to the feeders in her yard. Then she's ready to sit down and start writing.



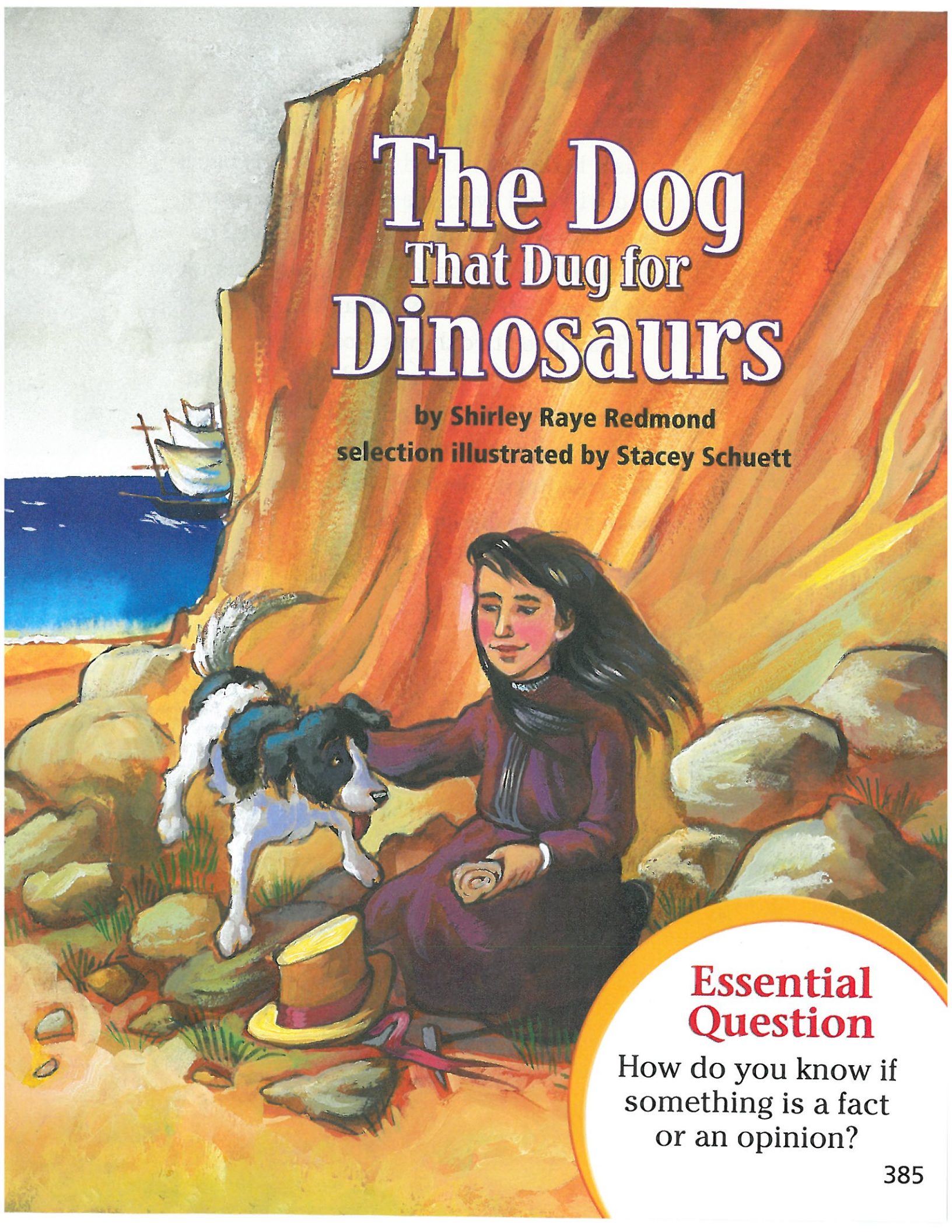
### MEET THE ILLUSTRATOR

## Stacey Schuett

Stacey Schuett wanted to be an artist or a writer ever since she was a kid.

"I was a dreamy kind of little kid who loved to make stuff up," she says. She has illustrated many books, including ones on pirates and trees.





# The Dog That Dug for Dinosaurs

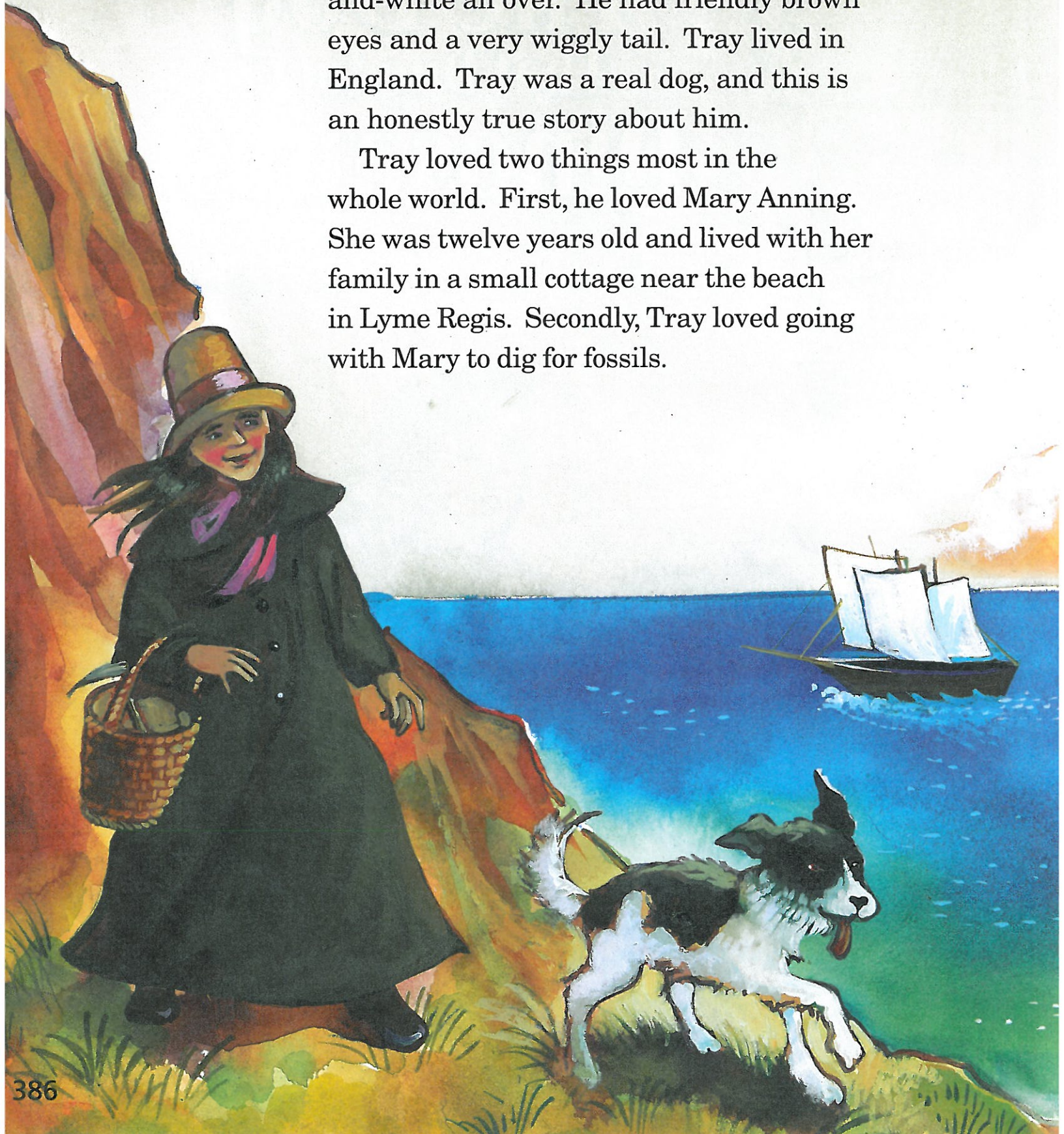
by Shirley Raye Redmond  
selection illustrated by Stacey Schuett

## Essential Question

How do you know if  
something is a fact  
or an opinion?

A LONG, LONG TIME AGO, there was a little dog named Tray. He was black-and-white all over. He had friendly brown eyes and a very wiggly tail. Tray lived in England. Tray was a real dog, and this is an honestly true story about him.

Tray loved two things most in the whole world. First, he loved Mary Anning. She was twelve years old and lived with her family in a small cottage near the beach in Lyme Regis. Secondly, Tray loved going with Mary to dig for fossils.



So, what are fossils anyway? They are the remains of animals and plants that died a long time ago. When a leaf or bone gets pressed between layers of sea mud, it leaves an imprint. After many, many years, the mud hardens to rock.



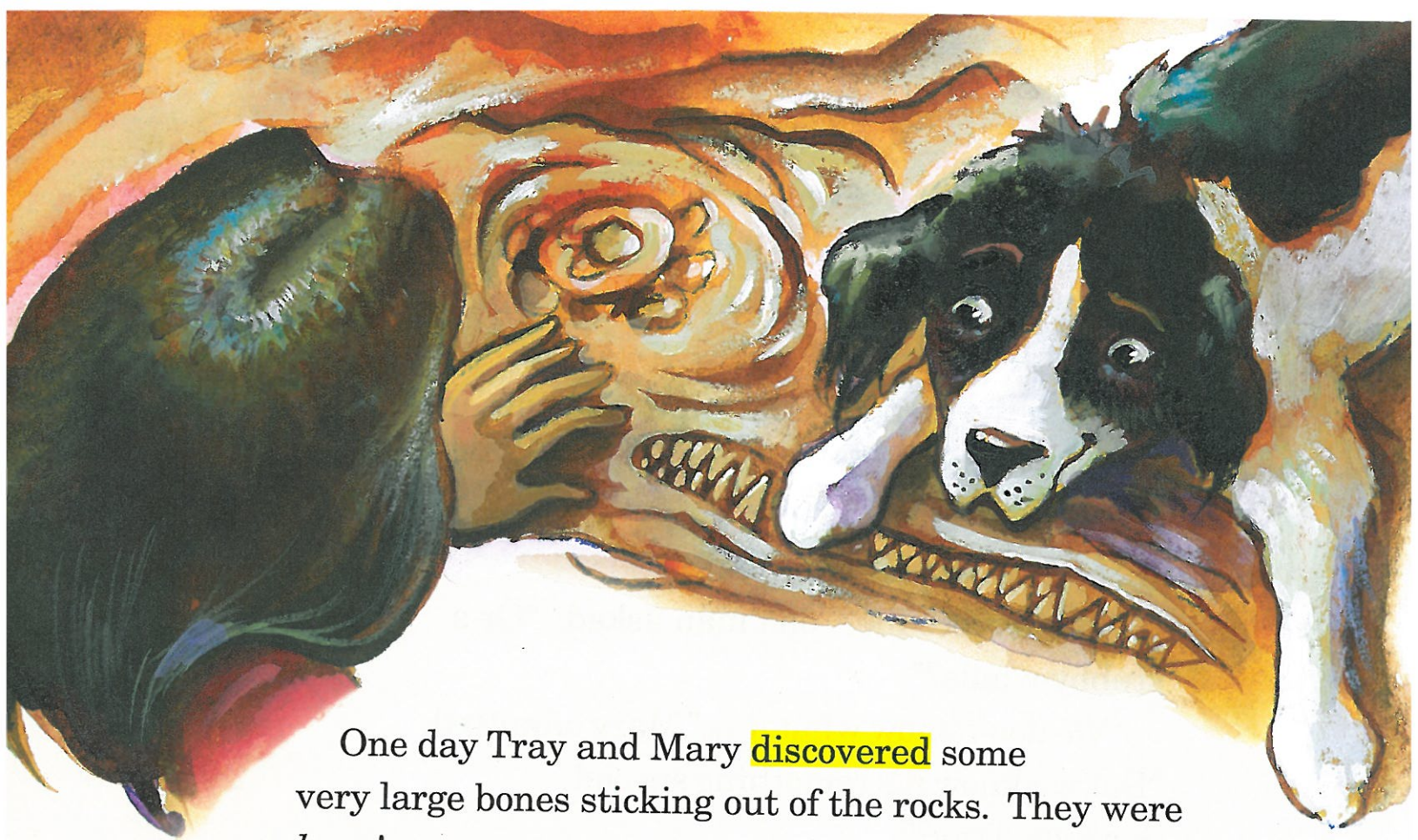


Tray and Mary knew that they would find the very best fossils high up on the cliffs around the beach. They climbed up there every day.

Tray sniffed the rocks. *Sniff, sniff.* He pawed the dirt. *Scratch, scratch.* Mary used a small hammer and chisel. *Tap, tap, tap.*

With these tools, Mary carefully cut fossils out of the cliff, just as her father had shown her. Tray watched as she placed the fossils in her basket. Most of them looked like seashells. Mary and Tray sold them as **souvenirs** to the tourists that came by stagecoach to swim at the beach near their home.





One day Tray and Mary **discovered** some very large bones sticking out of the rocks. They were *huge!*

Tray **growled** and tried to dig the bones out.

Mary used her hands to brush away the loose dirt.

“Tray, we’ve discovered a monster!” she declared.

The bones were much too big for Tray and Mary to **remove** by themselves.

“I’ll go for help,” Mary said. “You stay here, Tray.”

Tray barked loudly and sat down in front of the bones. He was a very good **guard** dog.

### **STOP AND THINK**

**Question** What questions about fossils do these pages answer? What new questions about fossils do you have?

Mary ran all the way back to town and asked some grown-ups to help her. “Tray and I have found something really special in the cliff,” she told them. “Just wait and see!”

When the men saw the giant rib bones in the side of the cliff, they were **amazed**. “What a beast!” they cried.

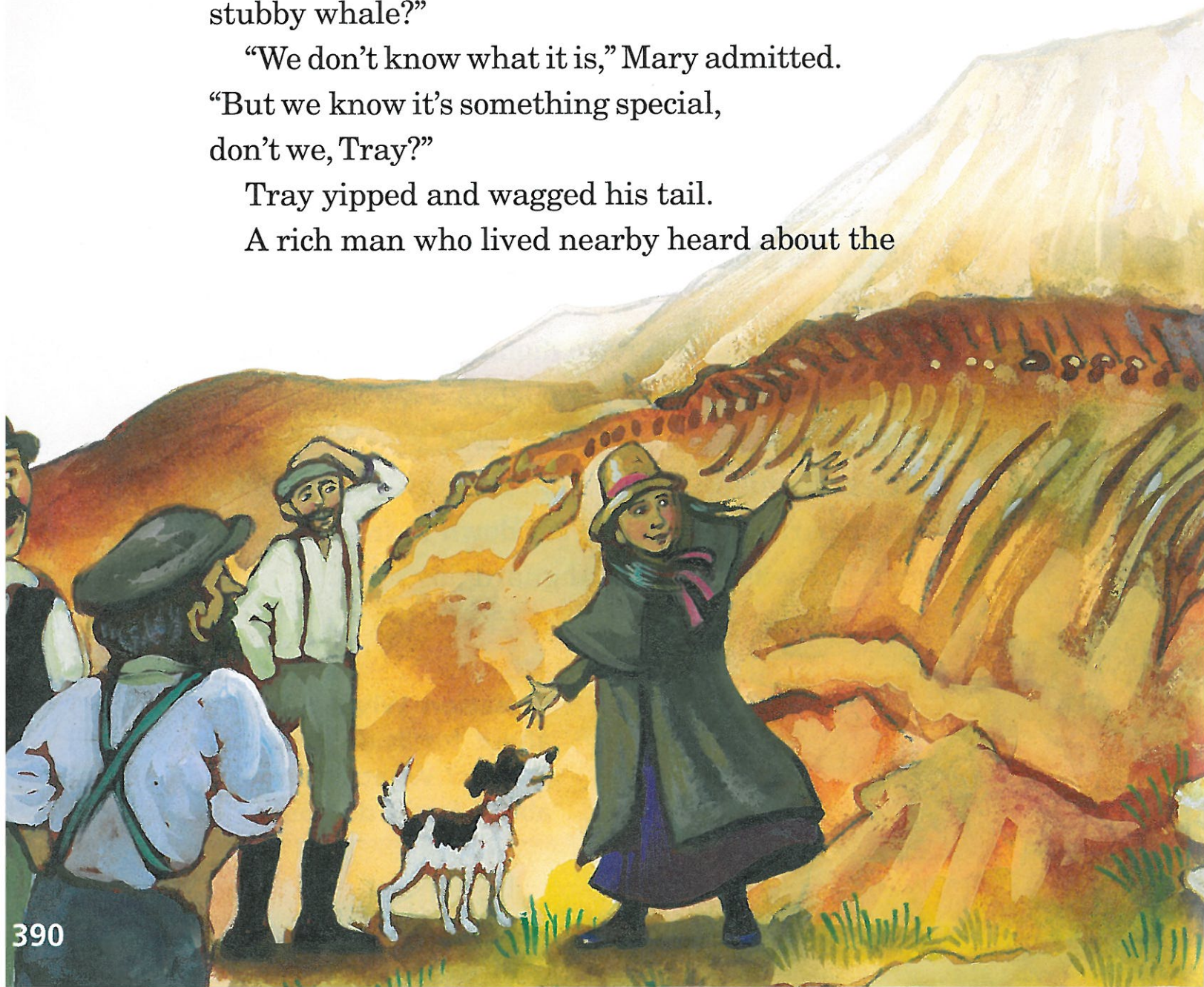
“Look at those sharp teeth!”

“Is it a crocodile?” one man asked. “Or a stubby whale?”

“We don’t know what it is,” Mary admitted. “But we know it’s something special, don’t we, Tray?”

Tray yipped and wagged his tail.

A rich man who lived nearby heard about the



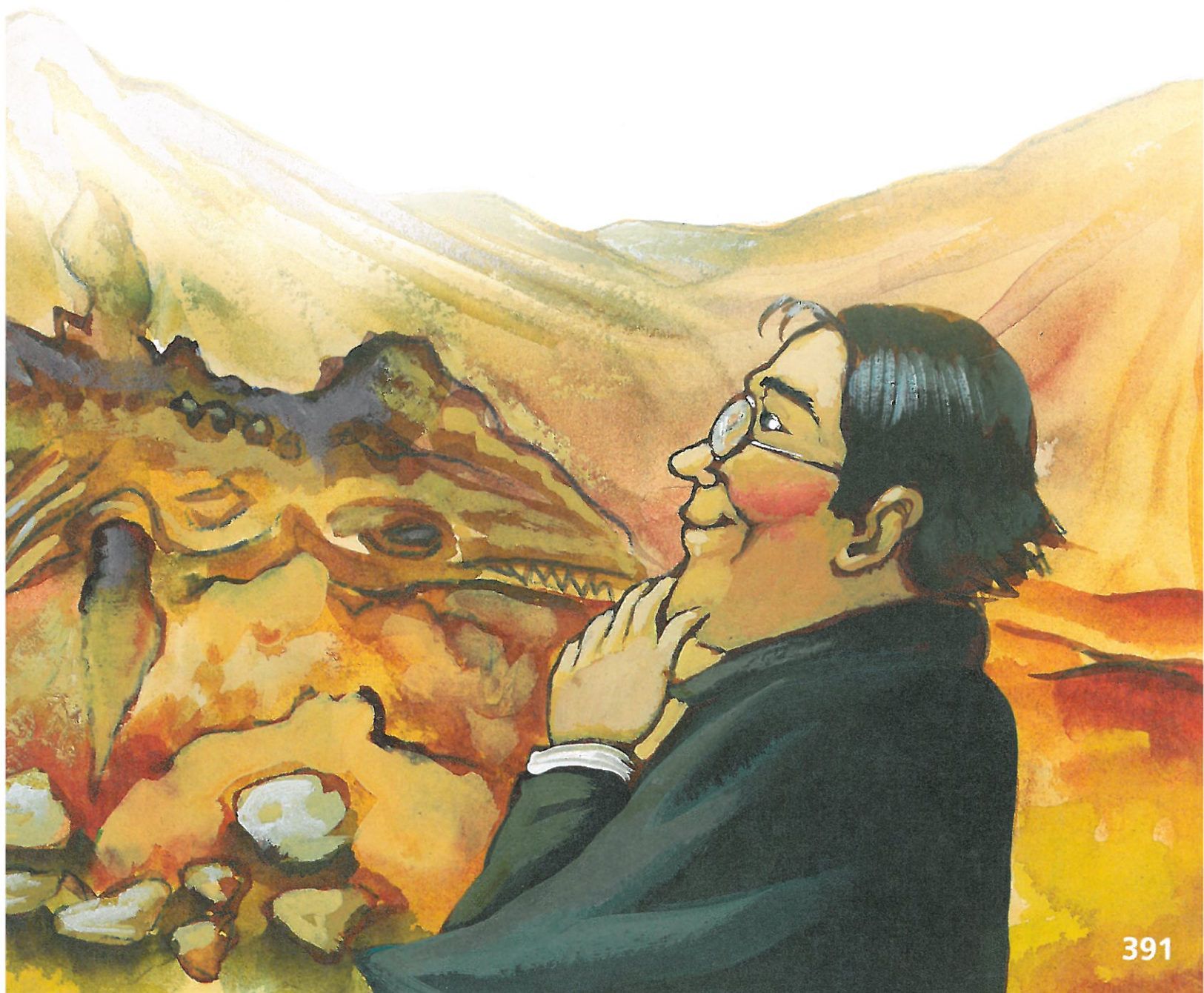
sea monster. He hurried to see it for himself.

“I’ll buy it!” he cried. “I will give it to the British Museum in London.”

“Do you know what it is?” Mary asked.

“It is called an ichthyosaur (ICK-thee-uh-soar),” the man told her.

“That means ‘fish lizard,’” he explained. “It’s like a dinosaur with fins.”



The amazing news spread about the gigantic fish lizard and the dog and little girl who had found it.

Soon many strangers came to Lyme Regis where Mary and Tray lived. They all wanted to hunt for fossils too. The men wore tall top hats. The women wore frilly bonnets. They carried pretty umbrellas called parasols.

Mary shook her head and smiled. She rubbed Tray's soft ears. They watched the strangers together.

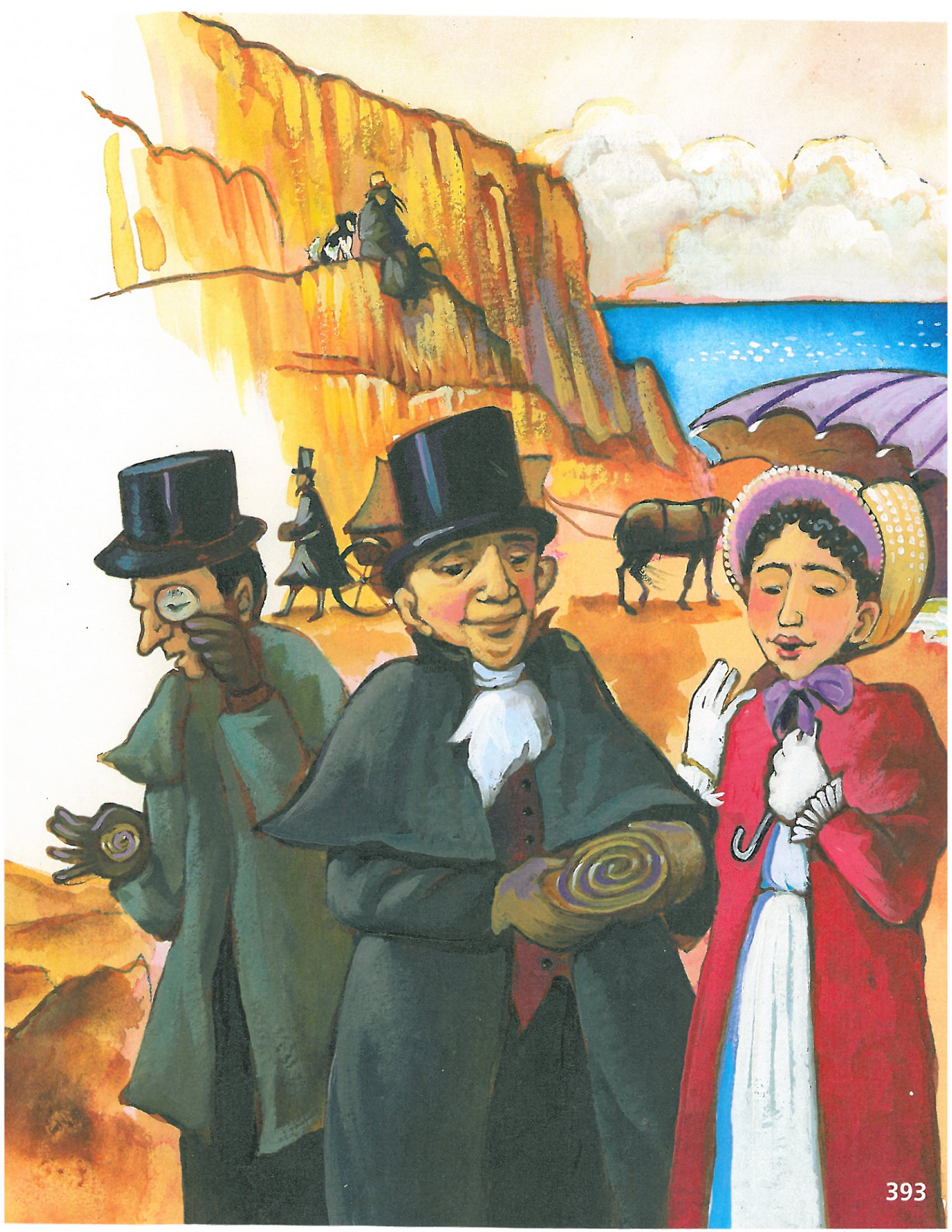
"They don't have the right tools," Mary whispered. "They are wearing the wrong kinds of shoes. Aren't they silly, Tray?"

Tray yipped and chased his tail.

### **STOP AND THINK**

**Author's Craft** How does the author help you understand how the strangers will have trouble finding fossils?

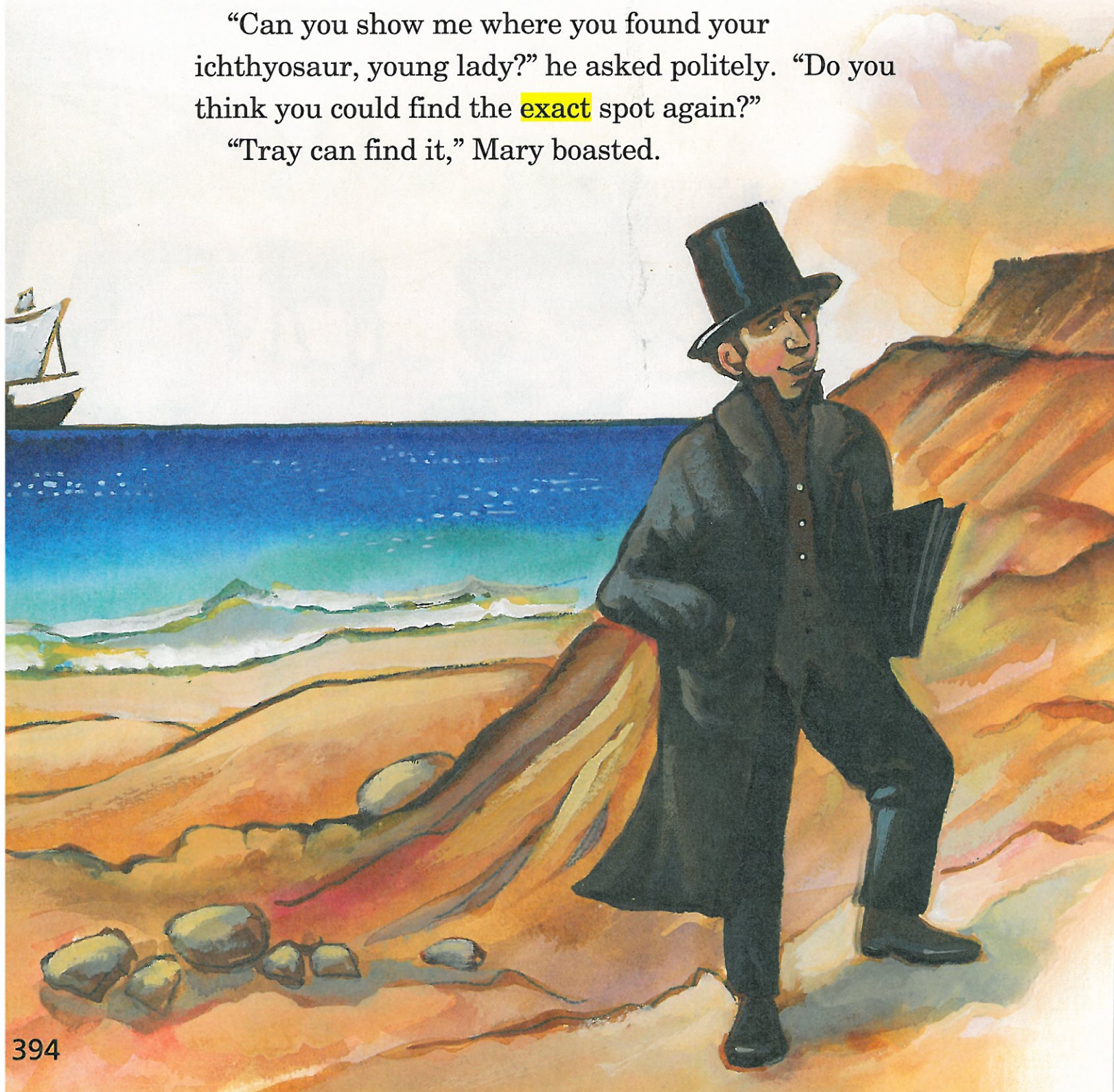




Curious scientists visited Lyme Regis too. One man came from the university in Oxford. His name was William Buckland. He went to the old carpenter's shop where Mary and Tray sold their fossils.

“Can you show me where you found your ichthyosaur, young lady?” he asked politely. “Do you think you could find the **exact** spot again?”

“Tray can find it,” Mary boasted.





Together Mary and Mr. Buckland followed the little dog across the beach and up to the cliffs.

Tray sniffed the rocks. *Sniff, sniff.*

He pawed the dirt. *Scratch, scratch.*

Suddenly he yipped. Then he sat down. Mary pointed. It was the exact place where she had discovered the strange fish lizard!

“What an intelligent dog!” Mr. Buckland declared.

Tray wagged his tail.



Tray and Mary continued to dig for fossils. They were very careful. Mary watched for falling rocks, like her dad told her. Tray looked out for storms and high tides. Then one day they discovered another giant creature.

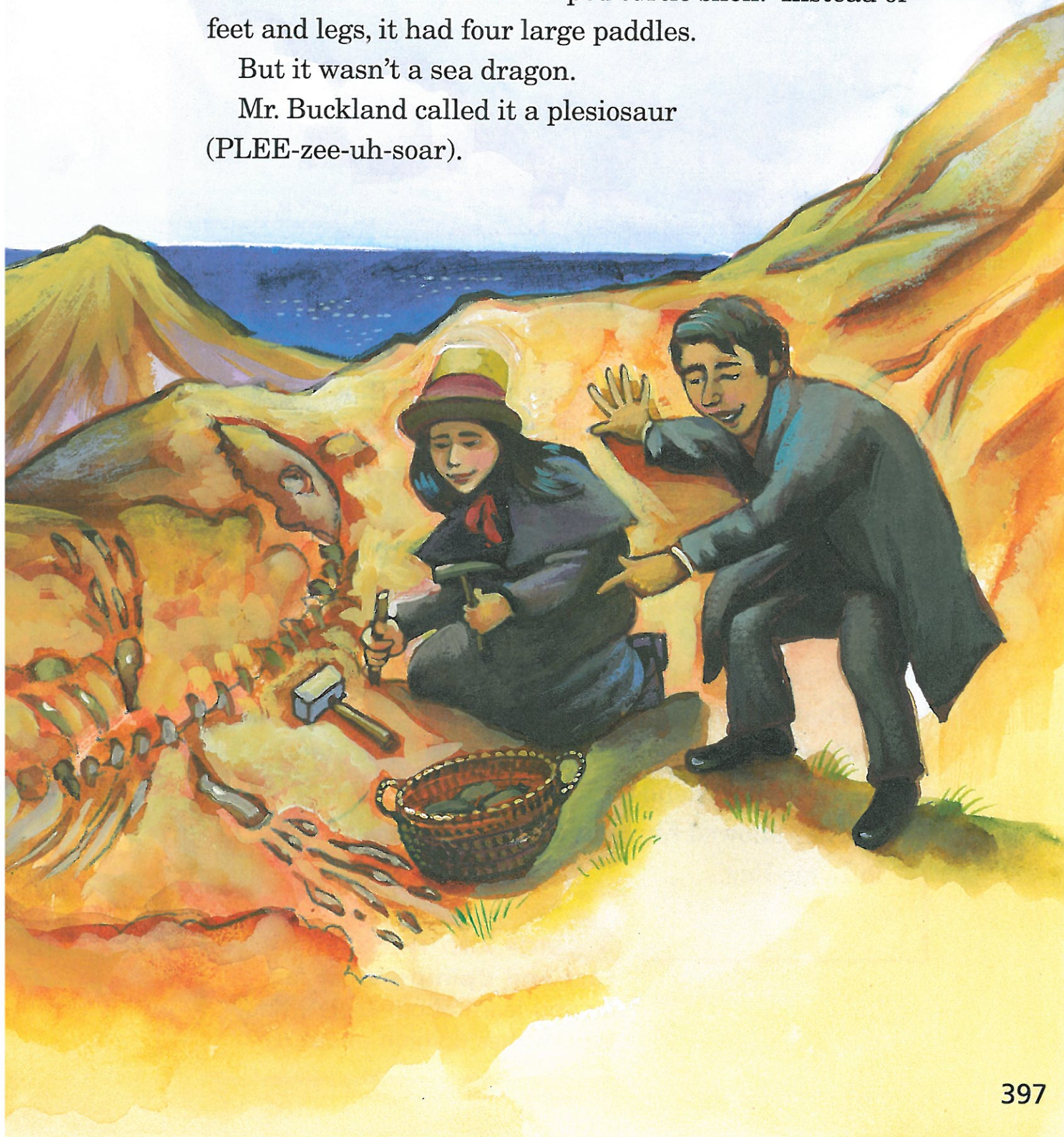
“Look, Tray!” Mary cried. “Is it a sea dragon?”

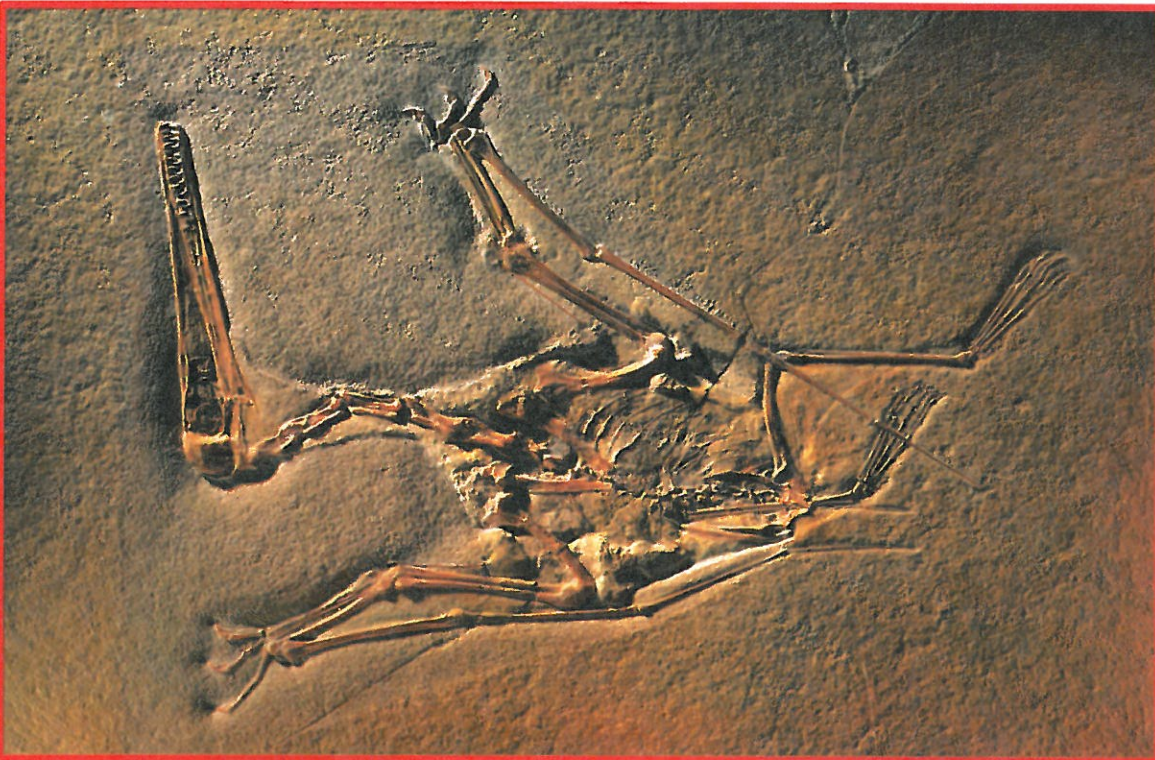


Tray sniffed the skeleton and snapped at it with his teeth. The creature had a long, long neck. Its backbone was like a humped turtle shell. Instead of feet and legs, it had four large paddles.

But it wasn't a sea dragon.

Mr. Buckland called it a plesiosaur (PLEE-zee-uh-soar).





One day, Tray and Mary found a fossil that no one in England had ever found before. This one had huge bony wings like a bat and a long sharp jaw.

Tray growled.

“It looks like a gigantic flying lizard!”

Mary declared.

The scientists thought so too, and that’s why they named it a pterodactyl (TAIR-uh-DACK-til).

That means “lizard with wings.”

Over the years, Tray, Mary, and Mr. Buckland became good friends.

They showed him where to find the best fossils in Lyme Regis.



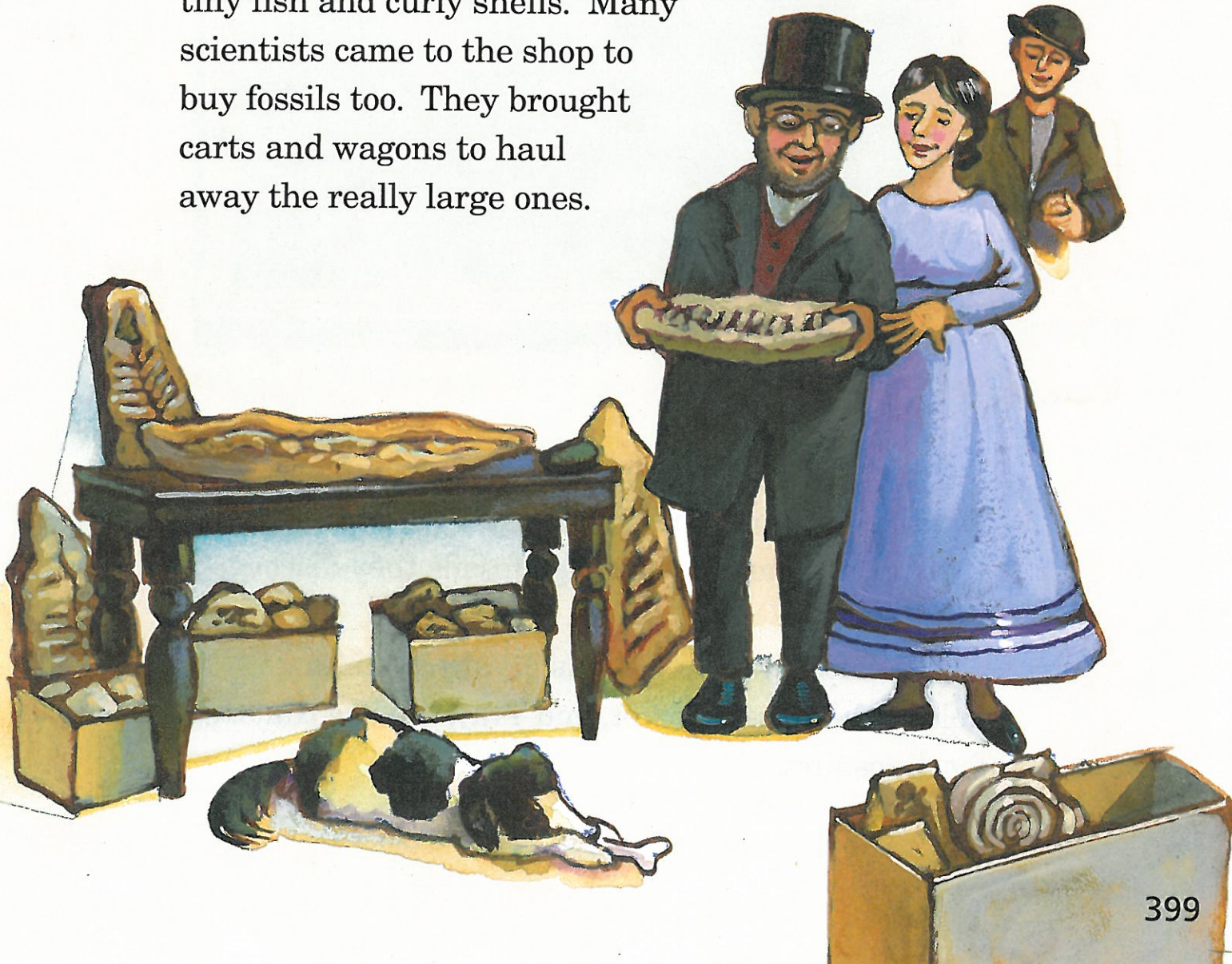
#### **STOP AND THINK**

**Fact and Opinion** What fact do you learn about Mary's find? What is her opinion about it?

Mr. Buckland brought books about dinosaurs for Mary. He brought beef bones for Tray. Mary, with Tray on her lap, studied her books every day.

When Tray's whiskers turned gray and Mary was all grown up, they still collected fossils and sold them in the old carpenter's shop. There were boxes and baskets filled with fossils on the floor and on the shelves. Some of the fossil creatures were so big they couldn't fit through the door!

Sometimes children and tourists stopped in to buy fossils of ancient sand dollars or tiny fish and curly shells. Many scientists came to the shop to buy fossils too. They brought carts and wagons to haul away the really large ones.





Tray and Mary Anning became very famous. Today, if you go to the Natural History Museum in London, you can see the large fossils they discovered together.

You can also see a famous painting of Mary holding her fossil basket, and Tray, the dog that dug for dinosaurs.

# Your Turn



## Dino Discovery

### Make a Model

Work with a partner. Imagine that you and your partner have discovered a new dinosaur. What will you name it? What does it look like? Make a model of your new dinosaur. Use clay or art scraps. Then share your model with the class. PARTNERS



### Turn and Talk

## Fact or Opinion?

With a partner, look back at page 392 of the selection. Which sentences on the page include facts? Which include opinions? Discuss how you know. FACT AND OPINION

