# **Science & Literacy Activity**

# **ACTIVITY OVERVIEW**

This activity, which is aligned to the Common Core State Standards (CCSS) for English Language Arts, introduces students to scientific knowledge and language related to how different parts of dinosaurs' bodies help them survive.

#### This activity has three components:

- 1. **BEFORE YOUR VISIT**, students will read a content-rich article about the body parts of extinct dinosaurs and modern birds. This article will provide context for the visit, and also help them complete the post-visit writing task.
- 2. AT THE MUSEUM, students will read and engage with additional texts (including printed text, digital and physical/hands-on interactives, video, diagrams, models). This information will help them complete the post-visit writing task.
- **3. BACK IN THE CLASSROOM**, students will draw on the first two components of the activity to complete a CCSS-aligned explanatory writing task describing the body parts of extinct dinosaurs and modern birds.

#### Materials in this packet include:

#### **For Teachers**

- Activity Overview (p. 1-2)
- Article (teacher version): "Birds and Other Dinosaurs" (p. 3-9)
- Answers to student worksheet (p. 10-11)
- Assessment rubric for student writing task (p. 12)

#### **For Students**

- Article (student version): "Birds and Other Dinosaurs" (p. 13-19)
- Student worksheet for Dinosaurs Among Us exhibition visit (p. 20-21)
- Student writing task, writing sheets, and rubric (p. 22-26)

# **1. BEFORE YOUR VISIT**

Students will read a content-rich article that describes the bodies of extinct dinosaurs and modern birds. This article will provide context for the visit and help them complete the post-visit writing task.

#### Preparation

- Familiarize yourself with the student writing task, writing sheets, and rubric (p. 22-26).
- Familiarize yourself with the teacher version of the article (p. 3-9), and plan how to facilitate the students' reading of the article.

#### Instructions

- Explain the goal: to complete a writing task describing the bodies of extinct dinosaurs and modern birds. You may want to read through the writing task with students at this point.
- Tell students that they will need to read an article before visiting the Museum, and read additional texts during the visit.
- Read and discuss the article, using the teacher notes to facilitate.

#### **Common Core State Standards**

**RI.K.1** With prompting and support, ask and answer questions about key details in a text.

**RI.K.2** With prompting and support, identify the main topic and retell key details of a text.

**W.K.2** Use a combination of drawing, dictating, and writing to compose informative/explanatory texts in which they name what they are writing about and supply some information about the topic.

New York State Science Core Curriculum LE3.1a

#### **Next Generation Science Standards**

**DCI: LS1.A: Structure and Function** All organisms have external parts. Different animals use their body parts in different ways to see, hear, grasp objects, protect themselves, move from place to place, and seek, find, and take in food, water and air.

# SEP 8: Obtaining, Evaluating and Communicating Information

- Obtain information using various texts, text features, and other media that will be useful in answering a scientific question.
- Communicate information in written forms using drawings and writing that provide details about scientific ideas.

At the Museum, students will read and engage with additional texts (including printed text, digital and physical/hands-on interactives, video, diagrams, models). The information they'll gather from these multiple sources will help them complete the post-visit writing task.

#### Preparation

- Review the educator's guide to see how themes in the exhibition connect to your curriculum and to get an advance look at what your students will encounter. (Guide is downloadable at **amnh.org/dinosaurs-among-us/educators**)
- Familiarize yourself with the student worksheet (p. 20-21) and the map of the exhibition.

#### Instructions

- Explain the goal of the Museum visit: to read and engage with texts (including printed text, digital and physical/hands-on interactives, video, diagrams, models) and to gather information to help them complete the post-visit writing task.
- Distribute and review the worksheet and map. Clarify what information students should collect, and where.

#### **Additional Suggestions for Facilitating the Museum Visit**

- Have students explore the exhibition in pairs, with each student completing his or her own student worksheet.
- The answers to student worksheet page includes a list of the models in the exhibition to choose from, along with their locations on the exhibition map. Use this information to help them find suitable models to choose.
- Encourage student pairs to ask you or their peers for help locating information. Tell students they may not share answers with other pairs, but may point each other to places where answers can be found.
- For those who may have trouble taking notes in the exhibition, teachers and chaperones may use the included worksheets to transcribe students' observations. Teachers and chaperones may also take photos for students to refer to back in the classroom.

# **3. BACK IN THE CLASSROOM**

Students will use what they have learned from the pre-visit article and at the Museum to complete a CCSS-aligned explanatory writing task describing the body parts of birds and extinct dinosaurs.

#### Preparation

• Plan how you will explain the student writing task and rubric (p. 22-26) to students.

#### Instructions

• Distribute the student writing task and rubric. Explain that they will use it while composing, and also to evaluate and revise what they have written.

#### **Suggestions for Facilitating Writing Task**

- Before they begin to write, have students use the writing task to frame a discussion around the information that they gathered at the Museum. They can work in pairs, small groups, or as a class, and can compare their findings.
- Referring to the writing prompt, have students underline or highlight all relevant passages and information from the article and from the notes taken at the Museum.
- Students should write their essays individually.

#### Supports for Diverse Learners

This resource has been designed to engage all learners with the principles of Universal Design for Learning in mind. It represents information in multiple ways and offers multiple ways for your students to engage with content as they read about, discuss, view, and write about scientific concepts. Different parts of the experience (e.g. reading texts, or locating information in the Museum) may challenge individual students. However, the arc of learning is designed to offer varied opportunities to learn. We suggest that all learners experience each activity, even if challenging. If any students have an Individualized Education Program (IEP), consult it for additional accommodations or modifications.

#### **Alternate Version of Article**

Another version of the same article with a lower lexile level is available for download at amnh.org/dinosaurs-among-us/educators. You can use this same activity with that article.

#### **GRADE K**

## **ARTICLE: TEACHER VERSION**

#### **About this Article**

**Lexile:** 650

#### Wordcount: 704

**Text Complexity:** The Lexile level for this text falls in the middle of the grades 2-3 CCSS text complexity band. This text is suitable to use as an interactive read-aloud for grades K-2. Second-grade teachers should use their professional judgement and knowledge of students' independent reading levels to determine if this text would be appropriate for students to read independently.

**Key for Teacher Notes** 

- Green text specific strategies
- Regular text
- instructions for teachers
- Italicized text teacher's instructions to students
- <u>Underlined text</u> important domain-specific words

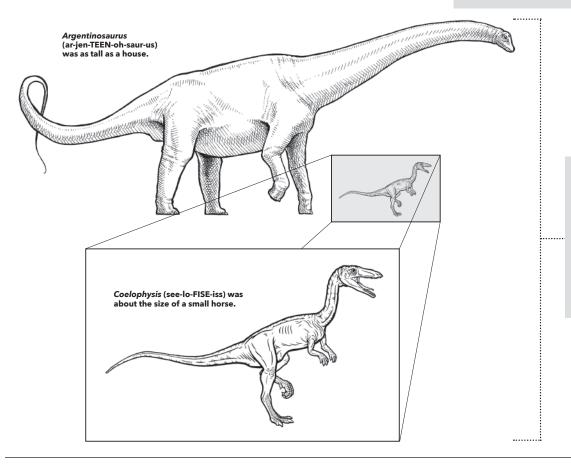
**Note:** Students should know who their "talk partner" is before the teacher begins the interactive read-aloud. Whenever the teacher notes suggest Think/Pair/Share, it is generally followed by instructions to "listen in" to student conversations. This enables the teacher to select students to share out thinking that would benefit the whole group to hear. Additionally, it allows the teacher to informally assess student thinking about the text. The teacher can follow up with a think aloud to help clarify parts of the text as needed. At times, the teacher may want to facilitate whole class discussion after Think/Pair/Share. For this text, primary grade teachers may opt to have students read in unison to familiarize themselves with the pronunciations of specific dinosaurs.

#### ARTICLE

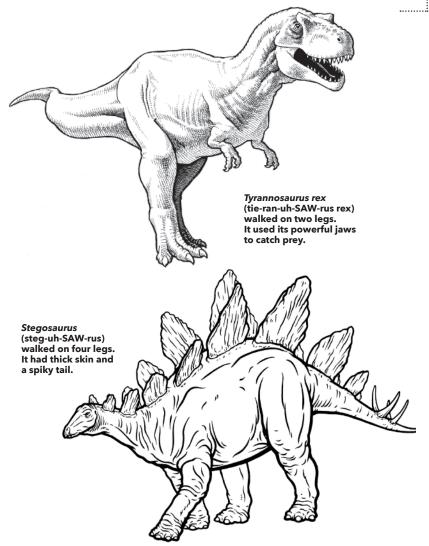
# **Birds and Other Dinosaurs**

Long ago, many kinds of dinosaurs lived on Earth. Some dinosaurs were as tall as a house. Others were smaller than you! Different dinosaurs had different body parts. The biggest dinosaurs had long necks that could reach leaves that were far away. Think-Pair-Share: What does this title make you think? Listen in. Optional: select a few students to share out. Students may wonder aloud about birds being grouped with dinosaurs.

Ask students to act out what "tall as a house" looks like by reaching their arms up high and to show what "smaller than you" looks like by indicating small size with their hands.



Think-Pair-Share: What do you notice about the dinosaurs in these two illustrations? Listen in and select a few students to share out. Revoice students' comments and/or invite students to add on or ask questions. Dinosaurs moved in different ways too. Some walked on four legs. Others walked on two. The dinosaurs that lived long ago are extinct. This means that there are none of them living today.



The word "extinct" means that a species (type of animal) is no longer living. You may want to elaborate on the difference between "dead" and "extinct" by explaining that one individual can die, but we use the word extinct to mean that NO type of that animal is living. Add to science word wall.

But one kind of dinosaur survives: birds! We know that birds are a kind of dinosaur because birds and extinct dinosaurs are alike in lots of ways. Hmm...what do you think about this? Give me a thumbs up if you can think of ways that the birds we see in the world today and dinosaurs that lived a long time ago are alike. If not, give me a thumbs down. Take note of how many students had a thumbs up/thumbs down. I think we will have more ideas about how dinosaurs and birds are alike if we read more!

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#### **Birds are Dinosaurs**

Compare the two animals in the pictures below. *Sinornithosaurus* (sigh-NOR-nith-oh-sawr-us) is a dinosaur that lived long ago. The roadrunner is a bird living today. Both animals walk and run on two legs. They are alike in other ways too. They both have claws and bodies that are covered with feathers.



No one has ever seen a living *Sinornithosaurus*. This is a photograph of a model that was made by an artist.



Roadrunners are birds living today. A photographer took this picture of a roadrunner in a field.

Let's take a look at more dinosaurs. See if you can spot other wavs they are alike and different. Think-Pair-Share: How are these two animals alike? Look at the photographs, and (also) think about what we just read. Listen in and select a pair to share out. After they point out similarities, think aloud about how one is extinct and the other is living (if this did not come up naturally when students were sharing out).

#### **Living Dinosaurs**

Here are three birds, or living dinosaurs:

Cardinals are familiar birds in many parts of the United States. The northern cardinal male is very easy to spot because of its feathers. It has a bright red body, a black face, and a pointed crest of feathers on its head. The males show



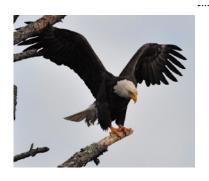
off their feathers to attract females. They might stick up their crest and sway back and forth while chirping a song. Feathers aren't just for finding mates. They also help keep cardinals warm and dry. Without feathers, cardinals couldn't fly! Invite students to raise their hands to answer questions: What does the cardinal look like? What are its feathers like? What are some of the ways its feathers help it? Revoice responses and/ or invite students to add on or ask questions.

The ostrich is a very different kind of bird. This large bird is covered with feathers, but it doesn't fly. It runs! Ostriches stand and run on two long, powerful legs. When they're chased, ostriches can run over of 70 kilometers per hour (43 mph). That's as fast as a car on a city street. And if they can't run away, they use their strong legs to deliver a mighty kick!



Invite students to raise their hands to answer question: What did we learn about the ostrich in this paragraph?

Eagles are big, strong birds. They can fly high and far. They can also dive very fast to catch dinner. This eagle has sharp, curved claws. These claws are good for grabbing and carrying small animals. It



also has a big, sharp beak shaped like a hook. The eagle uses its beak to kill and eat the animals it catches.

**Extinct Dinosaurs** 

Compare those birds to these dinosaurs from long ago. Remember, these dinosaurs have never been seen alive. The drawings are based on clues that scientists have found.

Living birds aren't the only dinosaurs with feathers. Some dinosaurs that lived long ago had feathers too! Look at *Anchiornis* (an-kee-ORN-is). Red, black, and white feathers covered its body from its head to its tail. These feathers kept the dinosaur warm. Feathers may have helped it get around, too. *Anchiornis* could not fly. But it may have used its wings to glide through the air.



Think-Pair-Share: Invite students to raise their hands to answer the question: What are some of the eagle's body parts you learned about? How do these body parts help it? Revise responses and/or invite students to add on or ask questions.

Think Aloud: Oh! Now I think we are going to learn about how extinct dinosaurs from the past are like birds that are alive today. Let's have our listening ears turned up high and be ready to raise our hands when we find a similarity between extinct dinosaurs and birds. Stop throughout the next three paragraphs to prompt students to raise their hands when they hear about a similarity. Encourage students to look at the illustrations as well. Shared Writing: Stop to scribe students' notings on a chart titled: "How Modern Birds are Like Extinct Dinosaurs." *Yutyrannus* (yoo-tee-ran-us) was a big, strong hunter like its cousin *Tyrannosaurus rex*. Like *T. rex*, it could walk on two legs. This dinosaur also had huge jaws and sharp teeth for eating meat. But unlike its cousin, this dinosaur was covered with spiky feathers. They may have used these feathers to stay warm and show off for other dinosaurs.

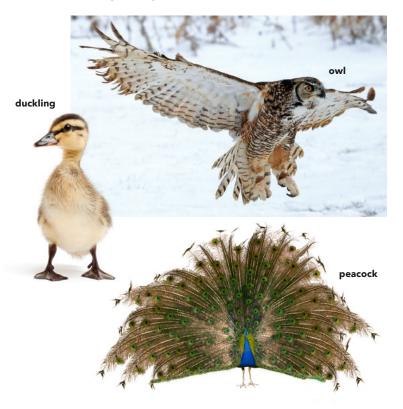
*Coelophysis* (see-low-FIGH-sis) was a small, fast hunter that ran on two legs. It had sharp claws for catching and holding small animals. And it had lots of sharp, jagged teeth for biting and eating them. One *Coelophysis* fossil was found with small lizard-like animals in its belly. This was probably what the dinosaur ate right before it died. Small lizard-like animals may have been a typical meal for all *Coelophysis*.



#### **Dinosaurs Past and Present**

We used to think that dinosaurs were extinct. Now we know birds are dinosaurs too. Like some of their extinct dinosaur relatives, birds walk on two legs. They also have feathers, beaks, and claws. Scientists are still learning about dinosaurs of the past and the dinosaurs flying above us today! Think-Pair-Share: What big idea did this article teach you about? Listen in and invite pre-selected students to share out. If a student expresses the idea that scientists changed their minds about dinosaurs and realized they were related to birds, scribe this idea on the chart where you made notes previously. If this does not come out from students' comments, do a think aloud in which you express that key idea.

Dinosaurs live among us today. Look at all the different kinds of birds!



#### **Image Credits**

Argentinosaurus, © AMNH/Sean Murtha; Coelophysis, © AMNH/Ed Heck; Tyrannosaurus rex, © AMNH/Sean Murtha; Stegosaurus, © AMNH/Ed Heck; Road runner, © Sandy & Chuck Harris; Sinomithosaurus model, © AMNH; Sinomithosaurus skeleton, © AMNH/Sean Murtha; Road runner skeleton, © AMNH/Sean Murtha; Cardinal, © Craig O'neal; Ostrich, © Davida De La Harpe; Eagle, © Bob Harris; Anchiomis, © Zhao Chuang, Courtesy of Peking Natural Science Organization; Yuturannus, © Zhao Chuang, Courtesy of Peking Natural Science Organization; Coelophysis, © Zhao Chuang, Courtesy of Peking Natural Science Organization.

#### **STUDENT WORKSHEET: Part 1**

Name:

**ANSWER KEY** 

**Welcome to the** *Dinosaurs Among Us* **exhibition!** Today, you'll explore extinct dinosaurs that lived long ago. You'll also explore living dinosaurs known as birds.

What to Do: In the exhibition, choose two dinosaurs: an extinct dinosaur and a bird. Look at them closely. Draw and label them below. (Be sure to read the instructions carefully. Make sure that you're choosing to draw the right kind of animal. Ask your teacher if you're not sure.)

1. Find a model of an EXTINCT DINOSAUR.

Dinosaur Name:

Draw the dinosaur. Label three of its body parts.

In the exhibition, there are many models that students may use, e.g.:

- "Nest, Eggs & Babies" section: Citipati osmolskae, Yutyrannus huali
- "Bones, Beaks & Claws" section: Velociraptor mongolensis, Beipiaosaurus inexpectus
- "Feathers" section: Sinornithosaurus milenii, Psittacasaurus sinesus, Tianyulong conficiusi, Anchiornis huxleyi
- "Flight" section: Archaeopteryx lithographica, Microraptor gui

Parts students may label include feathers, wings, teeth, beaks, claws, and legs.

#### How did this dinosaur use these body parts?

#### Answers will vary.

<b>Dinosaurs Amo</b>	ong Us	
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#### **STUDENT WORKSHEET: Part 2**

Name:



2. Find a BIRD.

exhibition, there are many models that students may use, e.g.:
est, Eggs & Babies" section: Southern Cassowary
ones, Beaks & Claws" section: Black Legged Seriema
ight" section: Oscillated Turkey
he New Age of Dinosaurs" section: Hoatzin, Harpy Eagle, White Bellied Storm Petrel, Common Raven, orthern Flicker, Southern Screamer, Scarlet Ibis
tudents may label include feathers, wings, beaks, claws, and legs.

#### How does the bird use these body parts?

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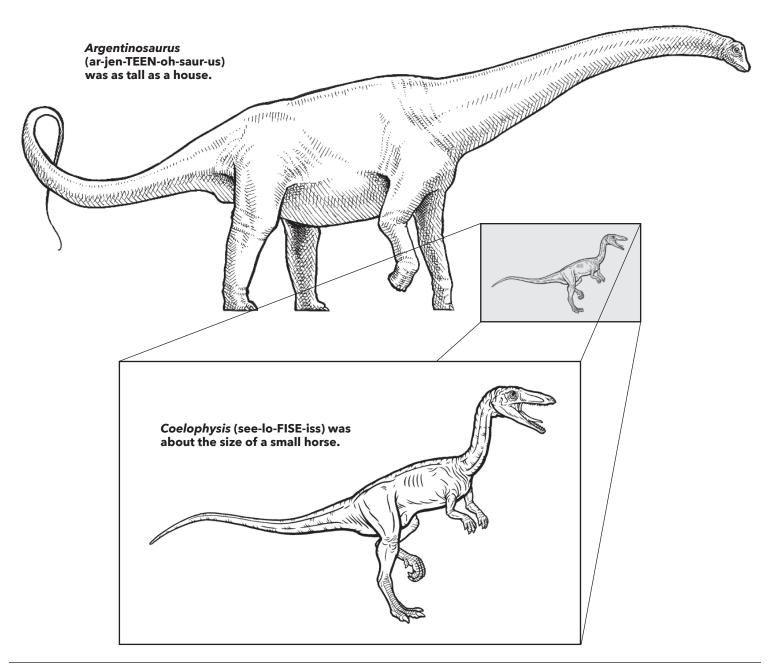
## **ESSAY SCORING RUBRIC: TEACHER VERSION**

	Exceeds	Meets	Approaches	Needs Additonal Support
	4	3	2	1
Research: "Birds and Other Dinosaurs" Article	Accurately presents information relevant to all parts of the prompt with effective paraphrased details from "Birds and Other Dinosaurs"	Presents information from the "Birds and Other Dinosaurs" relevant to the prompt with sufficient detail and accuracy	Presents information from the "Birds and Other Dinosaurs" mostly relevant to the purpose of the prompt with some lapses in accuracy or completeness	Attempts to present information in response to the prompt, but lacks connections to the "Birds and Other Dinosaurs" or relevance to the purpose of the prompt
Research: Dinosaurs Among Us Museum Exhibition	Accurately presents information relevant to all parts of the prompt with effective paraphrased details from <i>Dinosaurs Among Us</i>	Presents informa- tion from <i>Dinosaurs</i> <i>Among Us</i> relevant to the prompt with sufficient detail and accuracy	Presents information from <i>Dinosaurs</i> <i>Among Us</i> mostly relevant to the purpose of the prompt with some lapses in accuracy or completeness.	Attempts to present information in response to the prompt, but lacks connections to <i>Dinosaurs Among Us</i> content or relevance to the purpose of the prompt
Science	Integrates relevant and accurate science content with thorough explanations that demonstrate in-depth understanding of dinosaurs and their body parts	Presents science content relevant to the prompt with sufficient accuracy and explanations that demonstrate understanding of dinosaurs and their body parts	Presents science content mostly relevant to the prompt; shows basic or uneven understanding of dinosaurs and their body parts; some errors in explanation	Attempts to include dinosaurs and their body parts in explanations, but understanding of the topic is weak; content is irrelevant, inappropriate, or inaccurate
Explanations	Uses detailed labeled illustrations to effectively communicate relevant information about dinosaur body parts. Each illustration has one or more labeled body part	Includes two labeled illustrations to communicate relevant information about dinosaur body parts. Each illustration has one labeled body part	Inlcudes two illustrations without labels or only one properly labeled illustration	No illustrations
	Maintains a strongly developed focus on the writing prompt for the entire essay	Maintains focus on the writing prompt for the majority of the essay	Addresses the prompt but is off-task some of the time	Does not address the prompt for most or all of the essay
Development	The description of each dinosaur includes its name and at least one body parts along with accurate and detailed information about the function of that body part	The description of each dinosaur includes its name and one body part along with sufficiently accurate information about the function of that body part	Does not include dinosaur names or does not include a description of body parts for both of the selected dinosaurs	Does not name any dinosaurs or body parts

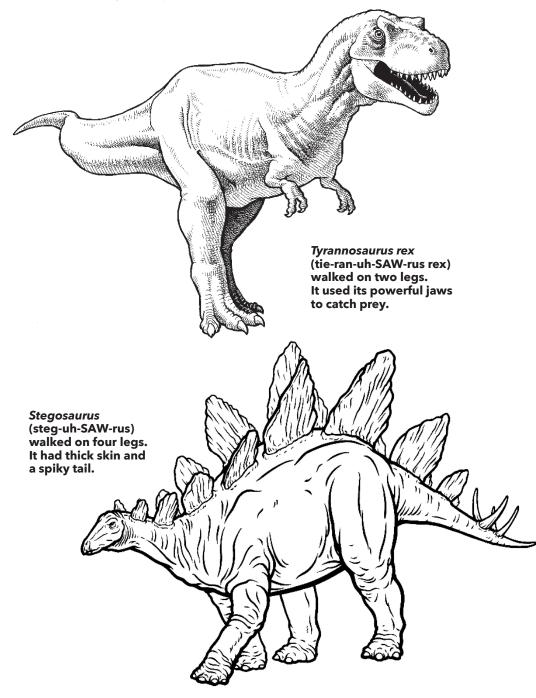
#### ARTICLE

# **Birds and Other Dinosaurs**

Long ago, many kinds of dinosaurs lived on Earth. Some dinosaurs were as tall as a house. Others were smaller than you! Different dinosaurs had different body parts. The biggest dinosaurs had long necks that could reach leaves that were far away.



Dinosaurs moved in different ways too. Some walked on four legs. Others walked on two. The dinosaurs that lived long ago are extinct. This means that there are none of them living today.



But one kind of dinosaur survives: birds! We know that birds are a kind of dinosaur because birds and extinct dinosaurs are alike in lots of ways.

## **Birds are Dinosaurs**

Compare the two animals in the pictures below. Sinornithosaurus (sigh-NOR-nith-oh-sawr-us) is a dinosaur that lived long ago. The roadrunner is a bird living today. Both animals walk and run on two legs. They are alike in other ways too. They both have claws and bodies that are covered with feathers.



No one has ever seen a living *Sinornithosaurus*. This is a photograph of a model that was made by an artist.



Roadrunners are birds living today. A photographer took this picture of a roadrunner in a field.

Let's take a look at more dinosaurs. See if you can spot other ways they are alike and different.

### **Living Dinosaurs**

Here are three birds, or living dinosaurs:

Cardinals are familiar birds in many parts of the United States. The northern cardinal male is very easy to spot because of its feathers. It has a bright red body, a black face, and a pointed crest of feathers on its head. The males show



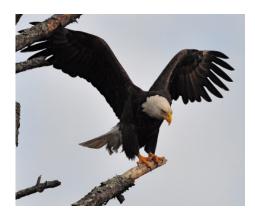
off their feathers to attract females. They might stick up their crest and sway back and forth while chirping a song. Feathers aren't just for finding mates. They also help keep cardinals warm and dry. Without feathers, cardinals couldn't fly!

The ostrich is a very different kind of bird. This large bird is covered with feathers, but it doesn't fly. It runs! Ostriches stand and run on two long, powerful legs. When they're chased, ostriches can run over of 70 kilometers per hour (43 mph). That's as fast as a car on a city street. And if they can't run away, they use their



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also has a big, sharp beak shaped like a hook. The eagle uses its beak to kill and eat the animals it catches.

## **Extinct Dinosaurs**

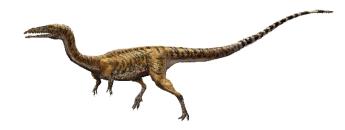
Compare those birds to these dinosaurs from long ago. Remember, these dinosaurs have never been seen alive. The drawings are based on clues that scientists have found.

Living birds aren't the only dinosaurs with feathers. Some dinosaurs that lived long ago had feathers too! Look at *Anchiornis* (an-kee-ORN-is). Red, black, and white feathers covered its body from its head to its tail. These feathers kept the dinosaur warm. Feathers may have helped it get around, too. *Anchiornis* could not fly. But it may have used its wings to glide through the air.



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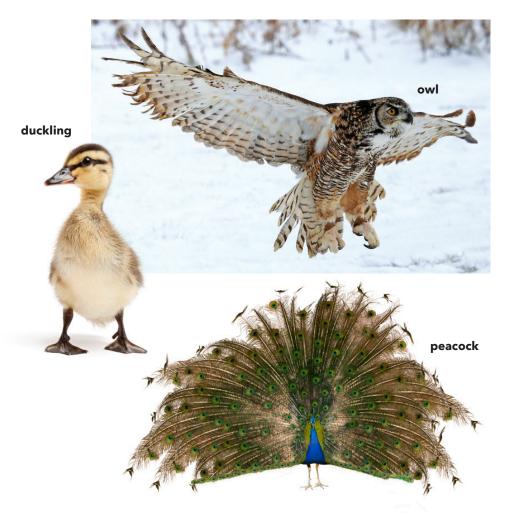
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### **Dinosaurs Past and Present**

We used to think that dinosaurs were extinct. Now we know birds are dinosaurs too. Like some of their extinct dinosaur relatives, birds walk on two legs. They also have feathers, beaks, and claws. Scientists are still learning about dinosaurs of the past and the dinosaurs flying above us today!

Dinosaurs live among us today. Look at all the different kinds of birds!



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#### **STUDENT WORKSHEET: Part 1**

Name:

**Welcome to the** *Dinosaurs Among Us* **exhibition!** Today, you'll explore extinct dinosaurs that lived long ago. You'll also explore living dinosaurs known as birds.

What to Do: In the exhibition, choose two dinosaurs: an extinct dinosaur and a bird. Look at them closely. Draw and label them below. (Be sure to read the instructions carefully. Make sure that you're choosing to draw the right kind of animal. Ask your teacher if you're not sure.)

#### 1. Find a model of an EXTINCT DINOSAUR.

Dinosaur Name: \_

Draw the dinosaur. Label three of its body parts.

How did this dinosaur use these body parts?

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#### STUDENT WORKSHEET: Part 2

Name:

2. Find a BIRD.

**Dinosaurs Among Us** 

Bird Name: \_\_\_\_\_

Draw the bird. Label three of its body parts.

How does the bird use these body parts?

#### STUDENT WRITING TASK

You have learned about all different types of dinosaurs, including birds, by reading "Birds and Other Dinosaurs" and visiting the *Dinosaurs Among Us* exhibition. Now you will make a book to teach your friends all about some of the birds and other dinosaurs you saw.

Your book will include one dinosaur that is a bird and one dinosaur that is not a bird. One should be from "Birds and Other Dinosaurs." The other should be from the *Dinosaurs Among Us* exhibition.

On the cover of your book, write the title of your book and your name.

On page 1 of your book, draw and write about the non-bird dinosaur that you chose. Label and describe one of its body parts and explain how the dinosaur uses it.

On page 2 of your book, draw and write about the dinosaur that you chose that is a bird. Label and describe one of its body parts and explain how this dinosaur uses it.

# Title of My Book

# My Name

T American Museum & Natural History

# A Dinosaur That is Not a Bird


# A Dinosaur That is Not a Bird


## **ESSAY SCORING RUBRIC: STUDENT VERSION**

	Exceeds	Meets	Approaches	Needs Additonal Support
	4	3	2	1
Research: "Birds and Other Dinosaurs" Article	I used what I learned in "Birds and Other Dinosaurs" to write a detailed book in my own words.	I used what I learned in "Birds and Other Dinosaurs" to write my book.	I used what I learned in "Birds and Other Dinosaurs" to write my book but I am not sure if everything I wrote is correct.	I did not use any information from "Birds and Other Dinosaurs" to write my book.
Research: Dinosaurs Among Us Museum Exhibition	I used what I learned in <i>Dinosaurs Among Us</i> to write a detailed book in my own words.	I used what I learned in <i>Dinosaurs Among Us</i> to write my book.	I used what I learned in <i>Dinosaurs Among</i> <i>Us</i> to write my book but I am not sure if everything I wrote is correct.	l did not use any information from <i>Dinosaurs Among Us</i> to write my book.
Science	All of the information I wrote about dinosaurs and their body parts is correct.	Most of the information I wrote about dinosaurs and their body parts is correct.	Some of the information I included about dinosaurs and their body parts is correct.	None of the information I wrote about dinosaurs and their body parts is correct.
Explanations	I drew pictures of two dinosaurs and labeled their body parts to show how they work.	I drew pictures of two dinosaurs and labeled their body parts.	I drew a picture of one dinosaur OR I didn't include any labels.	l did not include any illustrations.
	My whole book is about dinosaurs and their body parts.	Most of my book is about dinosaurs and their body parts.	Some of my book is about dinosaurs and their body parts.	My book is not about dinosaur body parts.
Development	I named two or more dinosaurs and explained how more than one of their body parts work.	I named two dinosaurs and explained how one of their body parts work.	I explained how the body parts of the one dinosaurs work OR I didn't give the dinosaurs' names.	l did not explain how any dinosaur body parts work.