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 comparing and contrasting the bodies 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 sheet, and rubric (p. 22-26)

Common Core State Standards

RI.2.1 Ask and answer questions to demonstrate understanding of key details in a text.

RI.2.2 Identify the main topic of a multiparagraph text as well as the focus of specific paragraphs within the text.

W.2.2 Write informative/explanatory texts in which they introduce a topic, use facts and definitions to develop points, and provide a concluding statement or section.

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.

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 sheet, 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 body parts 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.
- Distribute, read, and discuss the article, using the teacher notes to facilitate.

2. DURING YOUR VISIT

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.

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.

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.

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 dcomparing and contrasting 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.

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.

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

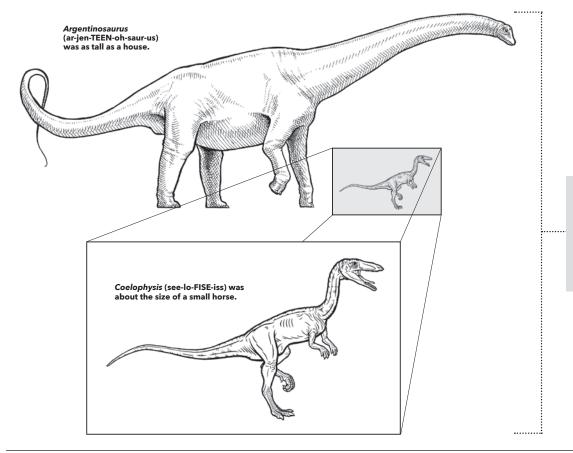
Birds and Other Dinosaurs

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.

Key for Teacher Notes

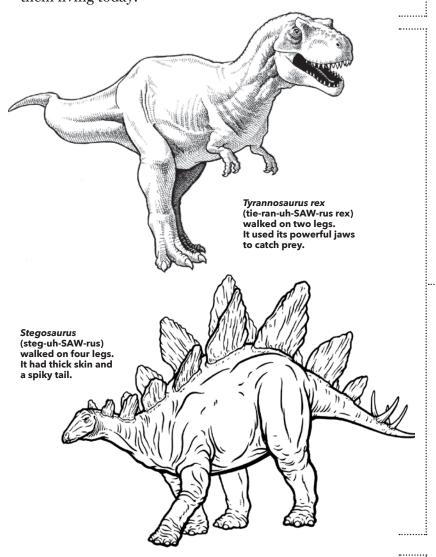
- Green text specific strategies
- Regular text instructions for teachers
- Italicized text teacher's instructions to students
- <u>Underlined text</u> important domain-specific words

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.



Think-Pair-Share: What do you notice about the dinosaurs in these two illustrations? Listen in and select a few students to share out.

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.



You may prompt students to think/pair/share about the meaning of the word "extinct." Listen in and select a student to share out if you overhear an accurate definition. If you need to give students a definition, say: The word extinct means a 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 animal can die, but we use the word "extinct" to mean that NO type of that animal is living. Add to science word wall.

Think Aloud: We are learning about lots of different kinds of dinosaurs! It seems like they looked and behaved in a variety of different ways. Think-Pair-Share: What else have you learned about different kinds of dinosaurs so far (either from the text or these next two illustrations)? Optional: Create a web with the students based on what they have read so far. Sample web: Put the phrase "All About Dinosaurs" in the middle, and the offshoots can say, "they were of many different sizes," "they had different ways of moving", and "they ate different types of food". You can add specific examples from the text for each offshoot (with student input) if you choose.

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.

Think Aloud: Wow! We just learned something very important and (perhaps) surprising. Think-Pair-Share: What is the big idea that we just read about in that last paragraph? Listen in and select a pair to share out. Optional: Chart this idea, composing a sentence with student input (shared writing).

Dinosaurs Among Us GRADE 2

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.

Think-Pair-Share: How are these two animals alike? Look at the photographs and you can also reread the paragraph I 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



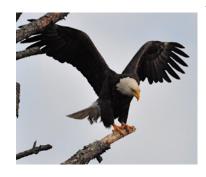
show off their feathers to attract females. They might stick up their crest and sway back and forth while chirping a song. Feathers aren't just for finding mates. They also help keep cardinals warm and dry. Without feathers, cardinals couldn't fly!

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 70 kilometers per hour (43 miles per hour). 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!

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.

different kinds of dinosaurs (birds) that are alive today. Think-Pair-Share: Talk with your partner about what you learned about the cardinal, the ostrich, and the eagle. Look back at the photographs and the text as you talk. Alternate Option: For more scaffolding, you may prompt students to think/pair/share after each paragraph, rather than asking them to discuss all three examples after you have read all three paragraphs in this section and looked at their corresponding photographs.

Think Aloud: We just learned about three

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: What do these extinct dinosaurs have in common with modern day dinosaurs (birds)? Listen in and select a pair to share out. Follow Up Think-Pair-Share: Based on the second paragraph in this section, what are some of the ways extinct dinosaurs may have used their feathers? Listen in and select a pair to share out.

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 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!

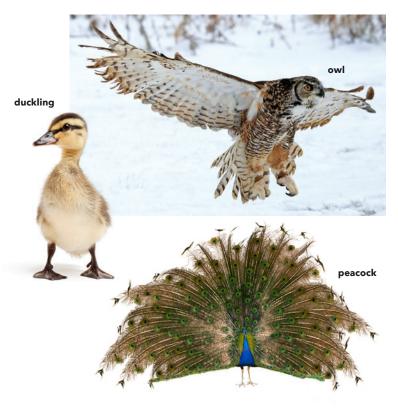


Image Credits

 ${\it Coelophysis} \ {\it and} \ {\it Stegosaurus} \ {\it illustrations}, \\ @ \ {\it AMNH/Ed} \ {\it Heck}; \\ {\it road runner}, \\ @ \ {\it Sandy} \ \& \ {\it Chuck Harris}; \\ {\it interpretations}, \\ @ \ {\it Chuck Harris}; \\ {\it interpretations}, \\ @ \ {\it Chuck Harris}; \\ {\it coelophysis}, \\ {\it Chuck Harris}; \\ {\it coelophysis}, \\ {\it Chuck Harris}, \\ {\it Chuck Harris}; \\ {\it coelophysis}, \\ {\it Chuck Harris}, \\ {\it Chuck Harris},$ Sinornithosaurus model, © AMNH; cardinal, © Craig O'neal; ostrich, © Davida De La Harpe; eagle, © Bob Har- $\textit{ris; Anchiornis, Yuturannus,} \text{ and } \textit{Coelophysis} \text{ illustrations,} \\ \textcircled{\textbf{@}} \text{ Zhao Chuang, Courtesy of Peking Natural Science}$ Organization; owl, Shutterstock; duckling, CSP-Alptraum/AGE Fotostock; peacock, iStockphoto.

Think Aloud: Scientists are always asking questions and learning new information... This last paragraph describes a major change in the way scientists think about dinosaurs. Think-Pair-Share: Describe the change that occurred in the way scientists think about dinosaurs. Listen in and select a pair to share out. What are some examples of the evidence that led scientists think about dinosaurs in this new way? Listen in and select a pair to share out.

Dinosaurs Among Us GRADE 2

STUDENT WORKSHEET	Name:	ANSWER KEY
Welcome to the <i>Dinosaurs Among Us</i> exhibition both birds, from eagles to ostriches, and the non-l		
What to Do: In the exhibition, choose one extinct draw and label them. Read the instructions carefu animal. Ask your teacher if you're not sure.		•
1. Find a model of an extinct dinosaur that is N	OT a bird.	
Dinosaur Name:		
Draw the non-bird dinosaur. Label three of its l	oody parts.	
In the exhibition, there are many models that st "Nest, Eggs & Babies" section: Citipati osm "Bones, Beaks & Claws" section: Velocirapte "Feathers" section: Sinornithosaurus mileni "Flight" section: Archaeopteryx lithographic For choosing the body parts to label, steer stud these will be the best for comparing to birds or	olskae, Yutyrannus huali or mongolensis, Beipiaosaurus ine i, Psittacasaurus sinesus, Tianyulon ca, Microraptor gui lents toward arms/wings, feet, feat	ng conficiusi, Anchiornis huxleyi whers/skin, and beaks/mouths;
How did this dinosaur use these body parts? Answers will vary.		

Dinosaurs Among Us GRADE 2

STUDENT WORKSHEET	Name:	ANSWER KE
2. Find a dinosaur that is a BIRD.		
Dinosaur Name:		
Draw the bird. Label the same 3 body part	s you labeled on your non-bird dinosa	ur in Part 1.
In the exhibition, there are many models th	at students may use, e.g.:	
• "Nest, Eggs & Babies" section: Souther	n Cassowary	
• "Bones, Beaks & Claws" section: Black	Legged Seriema	
• "Flight" section: Oscillated Turkey		
 "The New Age of Dinosaurs" section: F Northern Flicker, Southern Screamer, S 	Hoatzin, Harpy Eagle, White Bellied Stor Carlet Ibis	rm Petrel, Common Raven,
For this portion of the worksheet, students chose in Part 1. Note that the part might no might now be a "beak," etc.		
How does this bird use these body parts? Answers will vary.		
How is this bird similar to the dinosaur you	chose in question one? How is it dif	ferent?
Answers will vary.		

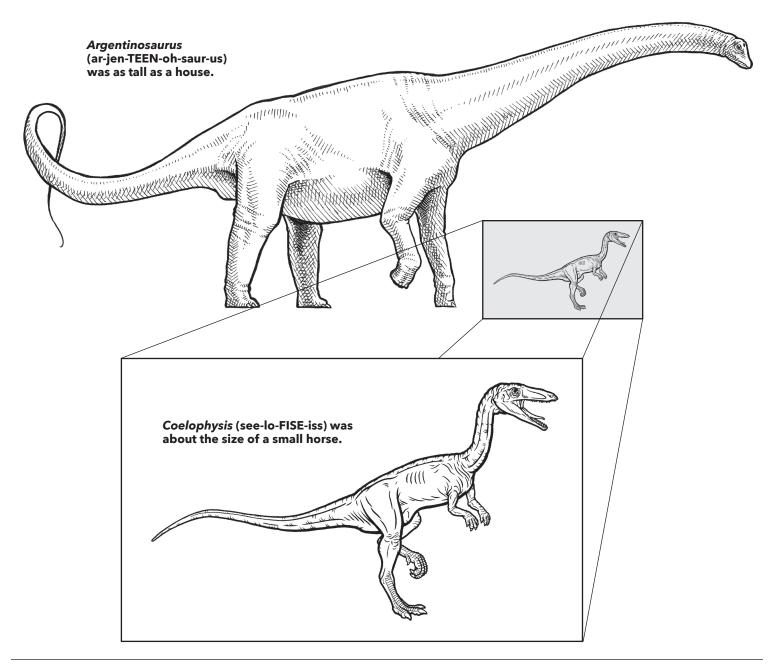
ESSAY SCORING RUBRIC: TEACHER VERSION

	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</i> Among Us	Presents information from Dinosaurs Among Us relevant to the prompt with sufficient detail and accuracy	Presents information from Dinosaurs Among Usmostly 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.
	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 the similarities between birds and non-bird dinosaurs in explanations, but understanding of the topic is weak; content is irrelevant, inappropriate, or inaccurate
Science Explanations	Integrates relevant and accurate science content with thorough explanations that demonstrate in-depth understanding of the similarities between birds and non-bird dinosaurs	Presents science content relevant to the prompt with sufficient accuracy and explanations that demonstrate understanding of the similarities between birds and non-bird dinosaurs	Presents science content mostly relevant to the prompt; shows basic or un- even understanding of the similarities between birds and non-bird dinosaurs; 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
	Uses detailed labeled illustrations to effectively communicate relevant information about dinosaur body parts. Each illustration has one or more labeled body parts	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
	Includes a relevant introduction	Includes an introduction	х	Does not include an introduction
Development	The description of each dinosaur includes its name and more than one body part 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 includes 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
	Provides a relevant conclud- ing statement/section	Provides a concluding statement/section	Provides a sense of closure	Provides no sense of closure

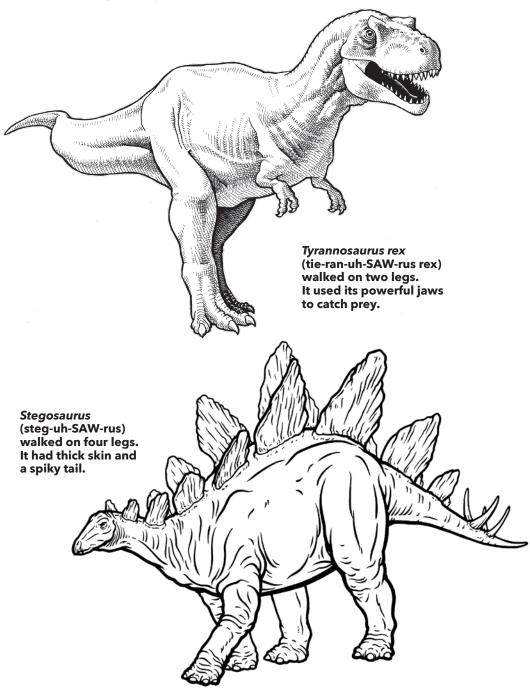
ARTICLE

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



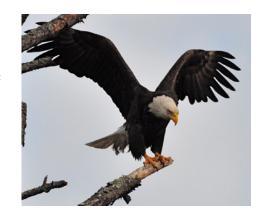
show off their feathers to attract females. They might stick up their crest and sway back and forth while chirping a song. Feathers aren't just for finding mates. They also help keep cardinals warm and dry. Without feathers, cardinals couldn't fly!

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 70 kilometers per hour (43 miles per hour). 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!

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.



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.



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 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!

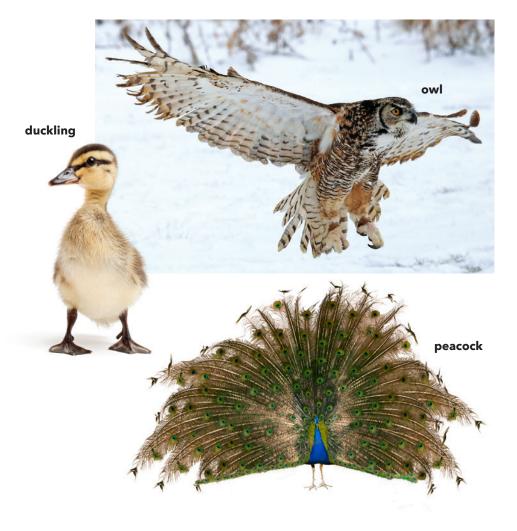


Image Credits

Argentinosaurus, Tyrannosaurus rex, Sinornithosaurus, and road runner illustrations, © AMNH/Sean Murtha; Coelophysis and Stegosaurus illustrations, © AMNH/Ed Heck; road runner, © Sandy & Chuck Harris; Sinornithosaurus model, © AMNH; cardinal, © Craig O'neal; ostrich, © Davida De La Harpe; eagle, © Bob Harris; Anchiornis, Yuturannus, and Coelophysis illustrations, © Zhao Chuang, Courtesy of Peking Natural Science Organization; owl, Shutterstock; duckling, CSP-Alptraum/AGE Fotostock; peacock, iStockphoto.

Dinosaurs Among Us	
STUDENT WORKSHEET	Name:

Welcome to the *Dinosaurs Among Us exhibition!* Today, you'll explore dinosaurs, a group of animals that includes both birds, from eagles to ostriches, and the non-bird dinosaurs, like *Velociraptor* and *Yutyrannus*:

What to Do: In the exhibition, choose one extinct dinosaur and one bird to observe closely. In the spaces below, draw and label them. Read the instructions carefully to make sure that you're choosing to draw the right kind of animal. Ask your teacher if you're not sure.

animal. Ask your teacher if you're not sure.
1. Find a model of an extinct dinosaur that is NOT a bird.
Dinosaur Name:
Draw the non-bird dinosaur. Label three of its body parts.
How did this dinosaur use these body parts?

STUDENT WORKSHEET	Name:
2. Find a dinosaur that is a BIRD.	
Dinosaur Name:	
Draw the bird. Label the same 3 body parts you labeled on	your non-bird dinosaur in Part 1.
How does this bird use these body parts?	
How is this bird similar to the dinosaur you chose in questi	on one? How is it different?

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" and one 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, introduce the two dinosaurs you chose. Next, draw and write about the non-bird dinosaur that you chose. Label and describe two of its body parts and explain how the dinosaur uses them.

On page 2 of your book, draw and write about the dinosaur that you chose that is a bird. Label and describe the same two body parts and explain how the dinosaur uses them.

At the end, compare the bird and the dinosaur that isn't a bird. How are they similar? How are they different?

Title of My Book
My Name

Dinosaurs Among Us	
	1
Caption:	
Сариоп.	
	

Caption:	

Dinosaurs Among Us

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</i> <i>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 Us</i> to write my book but I am not sure if everything I wrote is correct.	I did not use any information from <i>Dinosaurs Among Us</i> to write my book.
	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.
Science Explanations	All of the information I wrote about comparing the two animals is correct.	Most of the information I wrote about comparing the two animals is correct.	Some of the information I wrote about comparing the two animals is correct.	None of the information I wrote about comparing the two animals is correct.
	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.	I 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.
	My book includes an introduction about dinosaur body parts.	My book includes an introduction.	x	My book does not include an introduction.
Development	I named two dinosaurs and explained how more than two of their body parts work.	I named two dinosaurs and explained how two of their body parts work.	I explained how the body parts of the one dinosaurs work OR I didn't give the dinosaurs' names.	I did not explain how any dinosaur body parts work.
	I wrote an ending to my book that shows what I learned.	I wrote an ending to my book.	х	I didn't write an ending to my book.