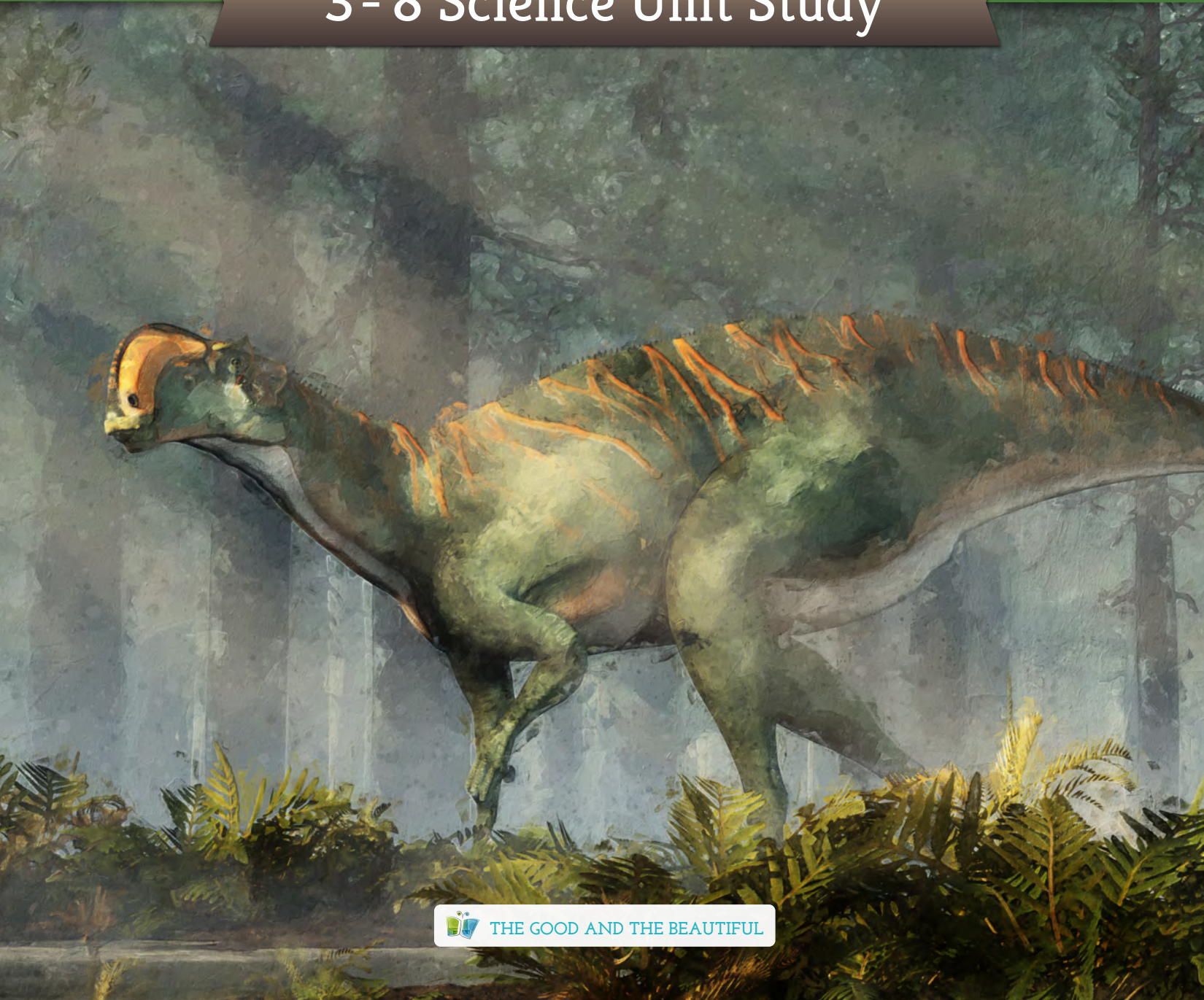


PALEONTOLOGY

3 - 8 Science Unit Study



THE GOOD AND THE BEAUTIFUL

Paleontology

CREATED BY THE GOOD AND THE BEAUTIFUL TEAM

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Unit Information

Student Journal



All The Good and the Beautiful science units include activities in a student journal. Each student should have his or her own student journal, and the parent or teacher will direct the student regarding when to complete the activities as directed in the lessons. This book can be purchased by going to goodandbeautiful.com/science and clicking on the *Paleontology* unit link.

Science Wall



All The Good and the Beautiful science units include vocabulary words to be placed on your science wall, which is a wall or tri-fold presentation board in your learning area on which you can attach the vocabulary words and other images. **Cut out the vocabulary word cards at the beginning of the unit.** The course will indicate when to place them on the wall.

Lesson Preparation



All The Good and the Beautiful science units include easy-to-follow lesson preparation directions at the beginning of each lesson.

Activities and Experiments



Many of The Good and the Beautiful science lessons involve hands-on activities and experiments. **An adult should always closely supervise children as they participate in the activities and experiments to ensure they are following all necessary safety procedures.**

Unit Videos

Some lessons include videos that were created by The Good and the Beautiful. Have a device available that is capable of playing the video from goodandbeautiful.com/sciencevideos or from the Good and Beautiful Homeschooling app.



Content for Older Children



Some lessons include extra content that is more applicable for older children (grades 7–8). Parents or teachers may choose to skip this content if instructing only younger children.

Content for Younger Children



Some lessons include extra content that is more applicable for younger children (grades 3–6). Parents or teachers may choose to skip this content if instructing only older children.

Belief Statement

The Paleontology unit has been written with a focus on basic Bible principles, allowing all families to use this unit and add in their specific beliefs. This unit works well for those who hold either Young Earth or Old Earth beliefs.

Versions

New discoveries are being made on an ongoing basis. This course is reviewed and revised periodically to keep information as up-to-date as possible. This version is the first edition of this unit.

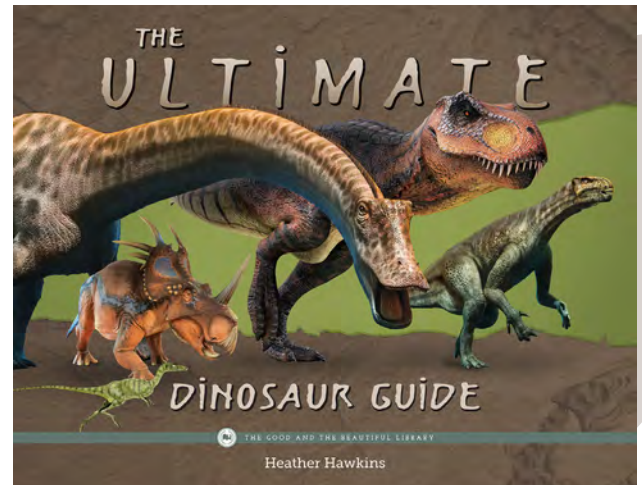


Read-Aloud Book Pack

The books below are optional read-aloud books that complement this unit. These books can be purchased as a book pack by going to [goodandbeautiful.com/science](https://www.goodandbeautiful.com/science) and clicking on the *Paleontology* link.



Ancient Animals
by Molly Sanchez and The Good and the Beautiful Team



The Ultimate Dinosaur Guide
by Heather Hawkins



CORRELATED BOOKS

The Good and the Beautiful Library has several books that correlate well with the *Paleontology* unit. It can be a wonderful experience for children to read books at their levels that are related to the subjects they are learning in science. The library includes both fiction and nonfiction books organized according to reading level. Find the Correlated Books by going to [goodandbeautiful.com](https://www.goodandbeautiful.com) and clicking on the *Paleontology* science unit product page.

GRADES 7–8

Lesson Extensions

How the Extensions Work

Each lesson has an optional lesson extension for children in grades 7–8. Complete the lesson with all the children, and then have the older children complete the self-directed lesson extension. These extensions are located in the Grades 7-8 Student Journal.

Answer Key

The answer key for the lesson extensions can be found on the free Good and Beautiful Homeschool app in the science section. Visit goodandbeautiful.com/apps for information on accessing the app. The app can be accessed from a computer, phone, or tablet.

Flexibility

The amount of time it will take to complete each lesson extension will vary for each child. The average time is about 10–15 minutes per extension. Parents/teachers and children may choose to omit parts of the lesson extension if desired. Encourage the children to stretch their capabilities, but also reduce work if needed.

Taking Notes

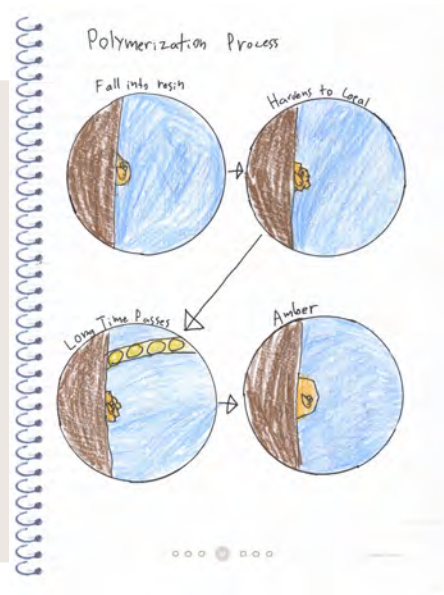
Some of the grades 7–8 lesson extensions have the children summarize the material read. Teach the children to look for key information, summarizing the most important points. Students can also add notes with their thoughts and the facts that are most interesting to them.

Optional Grades 7–8 Reading Book

We recommend *Amazing Archaeological Digs* as extra reading for students in grades 7–8. This book can be purchased by going to goodandbeautiful.com/science and clicking on the *Paleontology* unit link.



Amazing Archaeological Digs by The Good and the Beautiful Team



Supplies Needed

o o o

You will need the following supplies for activities and experiments.

Lesson 1

None

Lesson 2

- 2 cups of cornstarch per child
- 1 cup of water per child
- 1 medium-sized bowl and spoon per child
- 2 straws cut in half per child
- 1–2 small toys with smooth, hard surfaces (plastic dinosaurs if available) per child

Lesson 3

- Simple tools for digging (toothpick, butter knife, fork, etc.)
- Glue
- Permineralization activity prepared previously

Lesson 4

- Chalk or tape
- Glue
- 5 leaves (any leaves, such as from a tree or houseplant)
- 3 cups filled halfway with water

Lesson 5

None

Lesson 6

None

Lesson 7

- 2 bananas (optional)
- Thermometer (optional)
- One large and one small plastic bottle (such as a 2-liter pop bottle and a standard 16.9-oz water bottle)

Lesson 8

- 4 slices of sandwich bread per child
- 3–4 small objects per child such as paper clips, candies, toothpicks, etc., that can be placed between the bread
- 1 heavy book per child

Lesson 9

- 1 small-to-medium soft chocolate chip cookie per child
- 2 toothpicks per child

Lesson 10

- A pair of scissors for each child

Lesson 11

- 9 pennies
- 9 dimes
- tape
- Optional: 4 additional coins (if all the children are working together in a timed game)



Vocabulary

Instructions: Cut out the vocabulary cards in this section. Place them on your science wall when prompted to do so in the lessons. Review the vocabulary words several times during this unit and, if desired, at various times throughout the school year.



Paleontology

the scientific study of the remains of ancient animals and plants

Fossil

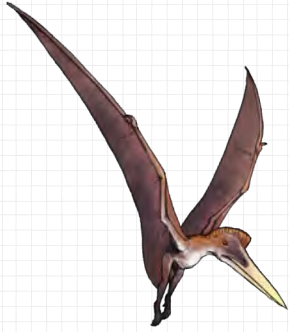
the preserved remains, or traces of remains, of ancient organisms



Impression

an indented mark formed by life preserved in rock



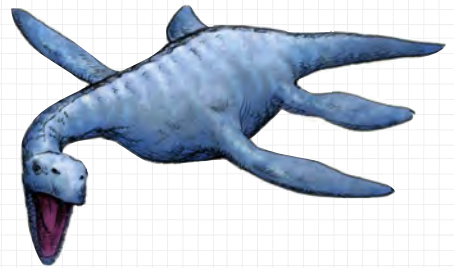


Pterosaur

an extinct group of flying reptiles

Plesiosaur

an extinct group of marine reptiles



Permafrost

a layer of Earth that stays frozen year-round, found primarily in polar regions



Archaeology

the study of human culture and history

Introduction to Paleontology

Objective

Help the children feel the wonder of discovering ancient life and understand the process of finding and studying remnants of the past.



Preparation:

■ None

Activity Supplies:

• None



■ Read to the Children

Have you ever wondered what it would be like to discover something from long ago? In this unit we will learn about the branch of science where people specialize in studying the things left behind by the animals, plants, and people of times past.

■ Science Wall: Vocabulary Word



Place the vocabulary card **PALEONTOLOGY** on your science wall. Read and discuss the word and its definition.



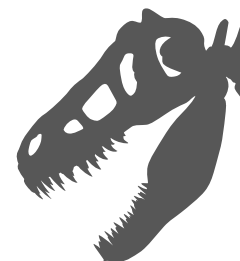
■ Read to the Children

Children have made important discoveries in paleontology. Young Wylie Brys discovered a nodosaur [NO–doh–sore] bone at a construction site in Texas, and 12-year-old Nathan Hrushkin found a hadrosaur [HAD–roh–sore] bone while hiking in Canada. In this science unit, you will learn so much about where and how to look for ancient artifacts that maybe someday you will find a dinosaur bone, too!

■ Picture Observation

Have the children observe the images of paleontologists included on page 6 of this lesson.

Read to the children: Paleontologists, scientists who work in paleontology, use a variety of tools to remove and study the remains of ancient life, ranging from jackhammers to dental picks. What similarities do you see in these pictures? [clothing, environment, tools] Do you see the string set up in a grid? Why do you think that grid is used? We will discover the answer in the next activity.



■ Dinosaur Discovery Video



Watch the video titled “Paleontology: Discovering Dinosaurs” at goodandbeautiful.com/sciencevideos.



Read to the children: Why do you think scientists take careful notes? When a dinosaur is found, the position of each bone and the rock surrounding it provide clues that help scientists learn about the dinosaur and the world it lived in.

World of Discovery Map Activity



Refer to the “World of Discovery Map” at the end of this lesson.



Read to the children: Do you see the red circles on the map? These are discovery hot spots where dinosaur bones are often found. Do we live near any of these hot spots? We are going to read about each one in order.

As I read about each hot spot, find its circle on the map. Write the blue underlined letters in each hot spot’s name in order on the spaces on the journal page to find out the name of the first discovered dinosaur.

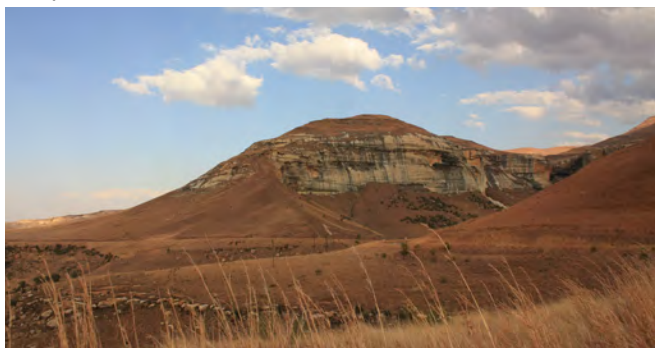
1 Drumheller, Alberta, Canada

Drumheller is home to Tyra, the world’s largest dinosaur statue which is over four times as large as a real *Tyrannosaurus rex* [ty–RAN–oh–SOR–us rex]. Visitors can climb stairs inside to her head to look out over the rocky badlands where Nathan Hrushkin found the bones of a hadrosaur.



2 Golden Gate Highlands National Park, South Africa

Known for its red and golden-orange sandstone cliffs, this national park is home to an exciting recent discovery of ten *Massospondylus* [MASS–oh–SPON–duh–lus] nests. Eggs, embryos, and even tiny dinosaur footprints were found in and around the nests.



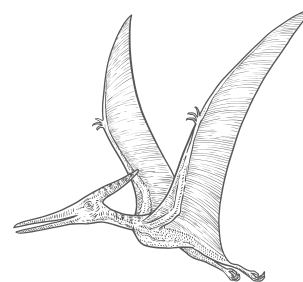
3 Gobi Desert, Mongolia

The first dinosaur discovered here, an oviraptor [OH–vir–AP–tor], was thought to be stealing the eggs found near it. It was later discovered that the dinosaur was simply sitting on the eggs. The largest sauropod [SAR–oh–pod] footprint was also found here in 2016.



4 Hell Creek Formation, USA

The famous Barnum Brown made three important discoveries here, including a skeleton of a *Tyrannosaurus rex*, something never found before. In 2003, a very unique discovery was made—a dinosaur tail with patches of mummified skin attached.





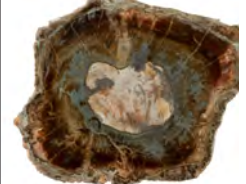





World of Discovery Map





Types of Fossils

Category	Example	Formation
Trace Fossil		Indirect evidence from animal activity such as footprints, feces, eggs without embryos, and burrows. These traces are covered by sediment before water or wind erodes them, and then they harden into rock.
		
Impression		Similar to trace fossils but created by the body of an organism that has decomposed. Sometimes casts are created when the impression fills with sediment.
		
Petrified Remains		Molds are impressions left from the body of an organism. Casts are these molds filled with sediment.
		
Preserved Remains		Original material is preserved in its original form by amber, ice, or tar which keep the organism from decomposing as quickly, if at all.
		

Science Wall: Vocabulary Words



Place the vocabulary cards **IMPRESSION**, **PETRIFICATION**, and **PERMINERALIZATION** on your science wall. Read and discuss the words and their definitions.



Permineralization Activity



Give each child a bowl, a spoon, two cups of cornstarch, one cup of water, straws, and a few small toys.

Read to the children: We are going to create fossils!

1. Mix the cornstarch and water until smooth.
2. Place your straws and any small toys you would like to dig out into the mixture.
3. Leave the mixture for 48 hours until fully hardened.

Permineralization is a **petrification** process in which minerals replace the original material. This is replicated in this activity. We will see the results and dig out our fossils in the next lesson.

Fossil Detective Activity



1. Lay all of the cut-out "Fossil Detective Cards" faceup on the table.
2. Have the children take turns picking a picture card and trying to match it to the correct information card using clues from the fossil (answer key provided on page 14).

Lesson 2 Extension



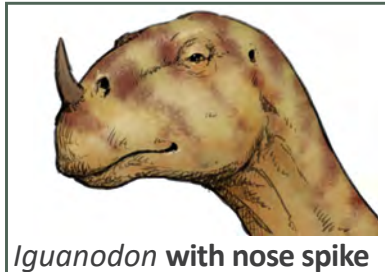
Have children grades 7–8 complete the self-directed Lesson 2 extension titled "Coprolites" in their student journals.



Fossil Detective Cards

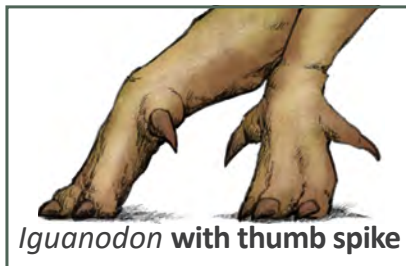


was discovered in Germany around 1335. As more of these strange creatures were discovered, scientists began to wonder if this was a unique species that was now **extinct**, meaning no members of the species were still alive. Richard Owens identified dinosaurs as a new species in 1842 and gave them the name **dinosaur**, which means “terrible lizard.” Early scientists trying to piece together fossils often made their



Iguanodon with nose spike

closest guesses using the information they had at the time. As later scientists gathered more information, they corrected some of what early scientists thought. When the *Iguanodon* was discovered by Gideon Mantell, he believed the spike went on its nose.



Iguanodon with thumb spike

Mantell used the information he had at the time. Newer evidence has led paleontologists to believe that the *Iguanodon* had spikes on its thumb instead of its nose.

Dinosaur Classification Activity



Have the children cut out the “Dinosaur Field Notes” cards in Lesson 3 of their student journals. Note that these cards will be used in this activity, as well as the activity following the upcoming video.



Read to the children: **Classification** is the process of organizing something based on shared characteristics, like how many legs it has, the size, the bone structure, if it has horns or not, and so on. **Using one student journal's set of cards, select four dinosaur cards.** Together we are going to classify these cards based on shared characteristics. For example, one group could have two legs and the other could have four. **Pause for activity and discussion.**

I am now going to give you two more dinosaurs, and you have to decide if they fit into either of the

categories you created for your classification system. If not, create a new group or start over and classify all the dinosaurs using a new system. **Continue giving the children two dinosaurs and allowing them to classify them until all the cards have been used. What did you learn from this activity?** [Dinosaur classification has changed over the years as new dinosaurs have been discovered.]

Dinosaur Fossils Video



Watch the video titled “Dinosaur Fossils: Pieces of a Puzzle” at goodandbeautiful.com/sciencevideos.

Discuss with the children: What is your favorite type of dinosaur? What is something new you learned about a dinosaur today? How are scientists learning new things about dinosaurs?

Dinosaur Field Journal



Have the children turn to the “Dinosaur Field Journal” booklet in Lesson 3 of their student journals.

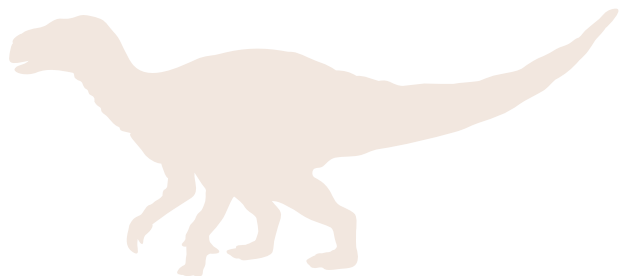
Read to the children: Let us use your “Dinosaur Field Notes” cards to learn more about how and where these species were found, as we glue the cards into the correct spots in the “Dinosaur Field Journal.”

Optional activity: As the students glue the cut-out cards in the correct places, look at a map or globe to locate where the dinosaur fossils were found.

Lesson 3 Extension



Have children grades 7–8 complete the self-directed Lesson 3 extension titled “Mr. Bones: Dr. Barnum Brown” in their student journals.



Land of Giants

Objective

Help the children learn about a variety of creatures and discover hypotheses about how some of them grew to be giants.



Preparation:

- Cut out the “Record Holders” cards on pages 19 and 21.

Activity Supplies:

- Chalk or tape
- Glue
- 5 leaves (any leaves, such as from a tree or houseplant)
- 3 cups filled halfway with water



■ Read to the Children

There have been dragonfly fossils discovered that are as long as your arm! Do you know what a millipede is? Hold out your leg. Mammoth millipede fossils longer than your leg have also been discovered! **Look at and discuss the “Dinosaur Comparisons” on page 23 of this guide.** One reason dinosaurs are so fascinating is their size. But how did they get so big? The best explanation from scientists is simple: oxygen.

■ Leaves and Oxygen Activity



Give the children five leaves and three cups half full of water, then have them turn to the “Leaves and Oxygen Activity” in Lesson 4 of their student journals. Have them place three leaves in one cup and one leaf in each of the remaining cups. Place the cup with three leaves and a cup with one leaf in

direct sunlight. Place the other cup with one leaf in a dark closet.

Read to the children: Fossils show us that when dinosaurs were alive, the climate varied from place to place. Plants take in carbon dioxide and release oxygen. To do this they need sunlight. **Have the children fill out the description portion of the “Leaves and Oxygen Activity” page.**

Scientists have done experiments placing insects in highly oxygenated environments to discover the effects of oxygen on their growth. They found that in environments with more oxygen, insects will grow larger. You will complete your journal activity later in the lesson.

■ Record Holders



Take out the “Record Holders” cards. A child could read the cards during this activity if he or she is able. Optional: This activity can be done outside by marking a sidewalk or long

driveway with sidewalk chalk. Start with the “*Arthropleura*” [AR-throw-plur-uh] card.

Read to the children: We are going to see the lengths of some record-holding ancient animals. **Have a child draw or tape a line on the ground. Have one child take eight steps from the line and draw or tape another line on the ground. Read the facts on the “*Arthropleura*” card while they walk.** This represents the approximate length of an *Arthropleura*. **Continue with each of the cards, having the children take turns walking one step for every foot of the creature’s length, beginning from the starting line each time. If the children cannot walk in a straight line for the full length due to the size of the area, have them double back and see how many**

Record Holders

Cut along the dotted lines. Read the facts as a child marks the length with chalk or tape.

Quetzalcoatlus
10.7 m (35 ft) wingspan

- Largest flying reptile
- First fossil found was a partial wing discovered in Texas
- Specimens found have not been near ancient water sources, which leads paleontologists to believe it didn't eat fish



- Very few fossils have been found, so much is unknown about this flying reptile
- Like other pterosaurs, its wing consisted of an elongated fourth finger and webbed membrane

Argentinosaurus
35 m (115 ft) long

- Largest land creature
- Was a *titanosaur*
- Top speed is estimated to have been 8 km/h (5 mph)
- Lived in South America, particularly Argentina



- Estimated to have taken 40 years to reach its maximum size
- Complete skeleton has not been found

"Scotty" the
Tyrannosaurus rex
12.2 m (40 ft) long

- Largest *Tyrannosaurus rex*
- *Tyrannosaurus rex* means "king of the tyrant lizards"
- Females were larger than males
- Lived for about 30 years



- Weighed up to 8.2 metric tons (9 US tons)
- Was able to bite 28 times more powerfully than humans

Arthropleura
2.4 m (8 ft) long

- Largest land invertebrate
- Has been found in North America and Scotland
- Scientists believe it was an herbivore based on pollen found in its stomach



- Tracks found in Nova Scotia revealed details of the creature's habitat and size
- No complete fossil has been found



Pterodactyl



Triceratops



Titanosaur

Iguanodon



Stegosaurus



Tyrannosaurus



Velociraptor



HIDDEN IN THE TAR PITS



Creatures of the Tar Pits

Read the corresponding facts when a child finds the hidden item on the page.



- Its teeth were very fragile.
- It is often mistakenly called saber-toothed tiger, but its correct name is saber-toothed cat.
- *Smilodon* is the name of the most famous species.



- The teeth could have been as long as 20 cm (8 in).
- Thousands of these teeth have been found in the La Brea Tar Pits.
- Scientists believe it hunted in packs.



- Former US president Thomas Jefferson identified one species of giant ground sloth.
- They could grow as tall as 3.65 m (12 ft) and were roughly the size of an elephant.
- They were herbivores that had large claws on their hands for pulling down trees.



- A mummified ground sloth was found preserved by the volcano it fell into.
- Paleontologists believe its claws might have also been used to dig for food.



- Tusks could grow as long as 4.6 m (15 ft), and paleontologists identify the creature's age by the growth rings in its tusk, similar to a tree's trunk.
- They likely lived in matriarchal herds similar to elephants.



- Based on preserved specimens, paleontologists know that their fur came in a range of colors, just like human hair.
- A species of mini mammoths lived on an island off the coast of California.



- Some had horns 2.4 m (8 ft) across from point to point, much larger than bison today.
- They lived in Alaska in the grassy flatland environment known as a steppe.



- These are often found in the tar pits. One mummified specimen was found in Alaskan permafrost by gold miners in 1979. It had blue skin caused by a mineral coating. It was nicknamed "Blue Babe."
- They were hunted by American lions.

Introduction to Archaeology

Objective

Help the children feel the wonder of discovering ancient life and understand the process of finding and studying remnants of the past.



Preparation:

■ None

Activity Supplies:

- 4 slices of sandwich bread per child
- 3–4 small objects per child, such as paper clips, candies, toothpicks, etc., that can be placed between the bread
- 1 heavy book per child

■ Hussein the Water Boy

Read to the children: The year is 1922, and 12-year-old Hussein is carrying water to an excavation site in Egypt's Valley of the Kings. Hussein has the important job of keeping the workers hydrated in the extreme heat of the desert. Their team has already uncovered a few small tombs where nobility were buried. Hussein digs a small hole in the sand to help his water jars sit upright and uncovers a smooth stone different from the ones around it. He tells a worker, and the team discovers it is a stone step . . . and there is another below it! The team continues to dig and makes an important discovery. We will find out where the stone steps took them at the end of this lesson.



■ Bread Layers Activity



Read to the children: The story of Hussein is a true account of a boy who worked for the famous archaeologist Howard Carter. The day described in the story was the day of

one of the greatest discoveries in history. Would you like to know what led up to this discovery? Why do you think Carter's team was digging in the dirt to find the remnants of history?

Give each child four slices of bread and three or four very small objects that can be flattened between the bread (paper clip, small candies, toothpick, etc.). Have the children place a slice of bread on the table and 1–2 objects on top of it, then another piece of bread. Have them continue layering bread and objects until they have no more. Then place a heavy book on top and press it down until the bread is fairly flat.

Read to the children: Look at your layers of bread from the side. Each piece of bread is like a layer of earth guarding its hidden treasures. Just like with fossils, over the course of many years, layers of sediment, such as dirt, rocks, grass, or other debris, are blown or washed over objects and bury them. Imagine you left a toy outside for many years. One year there is a mighty wind storm that blows dirt over the toy. Another year a flood carries dirt on top of the wind layer. Now imagine someone left another toy in the same spot 100 years later. There are now two layers of toys. Which toy is older? Archaeologists often find objects in many different layers of dirt, unearthing parts of history

If ancient sites are not visible above ground, archaeologists can also find their locations based on references in ancient records, including Egyptian hieroglyphs, cuneiform tablets, and even the Bible. There are hundreds of thousands of cuneiform tablets, like the one above written by Mesopotamians, that cover many years of ancient history. Modern technology allows archaeologists to find sites without having to dig first. For example, drones flown in the sky help archaeologists discover and document ancient sites above ground more quickly and help them find sites hidden in forests. Ground-penetrating radar pulled on a trolley helps locate things buried underground.



Cookie Excavation Activity



Have the children turn to the “Cookie Excavation” activity in Lesson 9 of their student journals. Give each child a small-to-medium soft chocolate chip cookie and two toothpicks.

Read to the children: We are going to practice careful excavation and documentation by using toothpicks to remove the chocolate chips from these cookies. Place your cookie on the cookie grid on the page. Do not move your cookie for the rest of the activity. Using the guidelines on the cookie grid, draw a copy of the cookie on the map grid. Start by outlining the cookie and then drawing any visible chocolate chips in the correct locations. **Pause while the children draw their cookies on their grids.** You have now documented the existing site just like an archaeologist. Begin excavation by carefully removing crumbs on the cookie to get to the chocolate chips. If you find a hidden chocolate chip, draw its location on the map grid. Place all the chocolate chip artifacts on the laboratory square and the crumbs on the dirt pile square. **When the children are finished, discuss the following questions:**

1. How many artifacts did you find? Was it hard to remove them without destroying them?
2. What did you learn from this activity about the excavation process of archaeology? [need to be careful, takes time]

Science Wall: Vocabulary Word



Place the vocabulary card **EXCAVATION** on your science wall. Read and discuss the word and its definition.



Archaeological Site Report

Read to the children: An important part of excavation is documentation. Documentation helps archaeologists track, study, and compare their findings to reconstruct cultures of the past and try to understand how people lived. Archaeologists take precise notes about the location of each item excavated and its relation to other nearby items. For example, if a clay pot is found near the remains of a well, archaeologists may decide that the pot was used to collect the water. The information gathered from a discovery’s surroundings is called context and is very important in determining the story of an archaeological site.

Famous Finds Video



Watch the video titled “Archaeological Sites: Famous Finds” at goodandbeautiful.com/sciencevideos. Have the child complete the “Archaeological Site Report” in Lesson 9 of their student journals.

Lesson 9 Extension



Have children grades 7–8 complete the self-directed Lesson 9 extension titled “Space Archaeology” in their student journals.



Glittering gold statues found deep in Egyptian tombs and giant stone faces standing sentinel on lonely islands—artifacts like these can sometimes tell us how ancient people lived. But how can objects teach us about the past? Archaeologists become detectives as they look at an artifact and its location in the soil. They see clues and form *hypotheses*, or educated guesses, about what the artifact is, how it was used, who might have used it, and what it can tell us about the ancient world. The artifacts on this page come from Lindisfarne, an ancient monastery or building occupied by religious men called monks. This archaeological site in England is believed to have been attacked by Vikings. You may be able to tell what some of the artifacts are right away: some coins, a metal pin, an arrowhead, and even rings found on a finger bone, but what about the blue artifact?

As we go through the analysis of this blue artifact, you will document it on the “Artifact Analysis” pages in your student journal.



Credit: DigVentures and Durham University

We now know that the artifact is smooth, made out of glass, and that it was something hard to make—which tells us that it was more expensive and not as many people would have had one. This hypothesis is supported by the fact that only one more of these artifacts has ever been found. This gives us an idea of who would have owned this piece: someone who was wealthy—a leader or even royalty.

Knowing the context of the artifact, try to identify who could possibly have been the owner of your artifact. Write your hypothesis in the space labeled with a 5 on the “Artifact Analysis” pages.

