

GRADES 3-5

**TIME**

Several class periods of group reading time

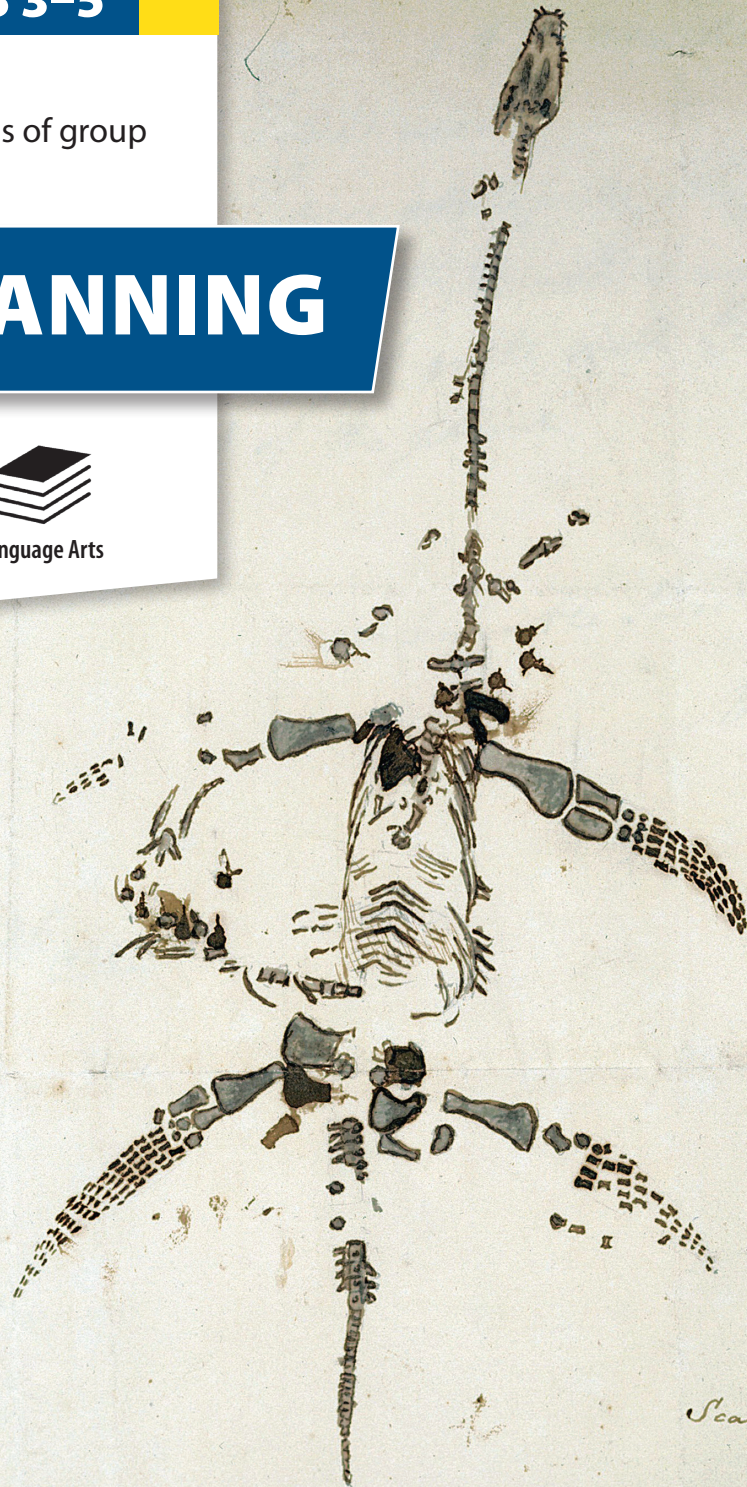
**MARY ANNING**



Science



Language Arts



*Scale One inch to one*

*Sir,*

*I have endeavoured to  
give you some idea of what it is like. In  
thinking that I said it was  
quite long neck and*

# MARY ANNING

The Children's Museum's lessons are designed to weave classroom experiences and museum education together. All lessons are interdisciplinary and can be used as individual classroom experiences or in combination to create a cohesive unit. Lessons are optimized when used in connection with museum virtual programs and field trips.

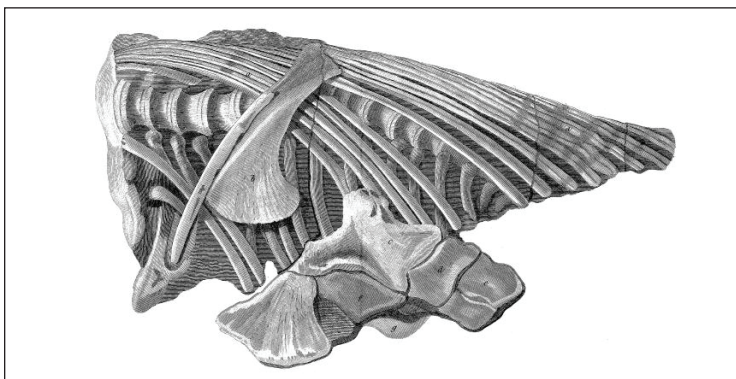
In this lesson, students will learn about a woman named **Mary Anning**, commonly known as one of the greatest **fossilists** in the world. Through reading, students can learn about both narrative and story elements and connect them to science concepts. After learning science concepts, students can also seek out stories to illustrate what they have learned. Literature can bridge the stories of the lives of inspirational scientists with their discoveries.

## FOCUS QUESTIONS

- Where was Mary Anning from?
- How old was she when she found her first fossil?
- What aquatic reptile was she the first to find?
- How did being a woman make working as a **paleontologist** more challenging for Mary Anning?

## MATERIALS

- Book or Articles about Mary Anning
- Graphic Organizer (back page)
- Suggested Reading Materials



Drawing of part of the skeletal remains of *Temnodontosaurus platyodon*, the first ichthyosaur found by Anning – from Everard Home's 1814 paper

## INDIANA ACADEMIC STANDARDS

**Science:** 3.2.4

**Language Arts:** 3.RN.2.1, 3.RN.2.2, 3.RN.2.3, 4.RV.1, 4.RN.2.1, 4.RN.2.2, 4.RN.2.3, 5.RN.2.2, 5.RN.2.3

## OBJECTIVES

Students will:

- Read or listen to the story of a famous pioneering female paleontologist.
- Identify the importance of the Lyme Regis area in terms of recovery of fossils of Jurassic marine life.
- Students will be able to explain how Anning's ichthyosaur provided proof of extinction never previously known before.

## BOOKS

- *Mary Anning's Curiosity* by Monica Kulling
- *History VIPs: Mary Anning* by Kay Barnham
- *Stone Girl, Bone Girl: The Story of Mary Anning* by Laurence Anholt
- *Lightning Mary* by Anthea Simmons
- *Dinosaur Lady: The Daring Discoveries of Mary Anning, the First Paleontologist*
- *The Fossil Girl* by Catherine Brighton

## ARTICLES

- "Mary Anning: The unsung hero of fossil discovery" <https://www.nhm.ac.uk/discover/mary-anning-unsung-hero.html>
- "Mary Anning Facts" <https://www.natgeokids.com/uk/discover/history/general-history/mary-anning-facts/>

# Learn About Mary Anning

## PROCEDURES

### Teacher Directions

- As a class, in small groups, or individually read a book or article about Mary Anning.
- As students are reading or listening to a book on Mary Anning, have them pay attention to Mary's key discoveries, and STEM skills she used to study fossils, in addition to biographical information.
- The graphic organizer will help students clearly visualize and summarize what they learn, assess their comprehension, and identify questions or clarifications that are needed.

## VOCABULARY

- Mary Anning
- Fossils
- Paleontologist
- Extinction

## Background

Paleontology and collecting fossils was relatively new and very popular when Mary Anning was young. Her family collected fossils to sell in order to supplement their income; Anning embraced this familial hobby and became the 'greatest fossilist the world has ever known'. She lived along the coast of the Lyme Regis region on the eastern shores of Great Britain. The shores in this region were full of Jurassic marine life. She discovered the first ichthyosaurus and the first plesiosaur. However, although she made many important discoveries, Anning often went uncredited due to her family's lack of social standing and her being a woman. Paleontology is an important study today because it gives scientists an opportunity to look at geological and biological changes over time. It also teaches cause and effect, and the understanding of the magnitude of modern occurrences.

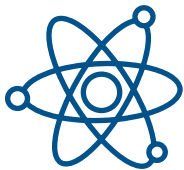


*London, England - December 4, 2019: The Pliosaurus Rhomaleosaurus cramptoni dinosaur was found by Mary Anning (1799-1847) of Lyme Regis, Dorset. It hangs on the wall at Natural History Museum London.*



*A landscape of the Jurassic coastline in Dorset England*

Name: \_\_\_\_\_ Grade: \_\_\_\_\_



*Choose a notable figure in the field of science and fill in their information.*

**Scientist:** \_\_\_\_\_

STEM Field:

Years Active:

Achievements / Discoveries:

Tools / STEM Skills:

Background:

