

Evolution and Inheritance: Lesson 6

Fossils

Science KS2 Year 6



Evolution and Inheritance: Lesson 6

Science

**Key Stage 2
Year 6**

Learning Aims:

- how living things changed over millions of years, and how fossils have allowed us to discover this
- learn about the scientists who study fossils: archaeologists, palaeontologists, geologists
- learn what fossil records show

Curriculum Link:

Pupils should be taught to:

- recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago

Key Vocabulary

Fossil. Fossilisation. Evolve. Evolution. Archaeologist. Palaeontologist. Geologist.

These can also be found at the end of this PDF and can be placed on a learning wall as they are discussed during the presentation.

Fossil

Evolve

Evolution

Geologist



PowerPoint Presentation

- Slides 1 and 2 introduce the lesson.
- Slides 3, 4 and 5 explain what a fossil is and recaps how they are formed.
- Slides 6 and 7 explain the role of a geologist.
- Slides 8 and 9 show a geological timeline of life on Earth.
- Slide 10 introduces archaeologists, and how their work helps us understand what fossils tells us about how humans have changed over time.
- Slides 11 and 12 look at how humans have evolved over the last 3 million years, and shows their changing skull.
- Slides 13 to 18 look at what fossils tell us about how plants and animals have changed over time.
- Slides 19 and 20 look at the extinction of the dinosaur.
- Slides 21 to 23 feature a selection of dinosaurs.
- Slide 24 explains the role of a palaeontologist.
- Slide 25 introduces Mary Anning.
- Slide 26 introduces Charles Darwin, and sets up that the next lesson will talk about Natural Selection.

Activity

- Slide 27 asks the children to fill in the information on their worksheets (on pages 5, 6, 7 and 8 of this PDF). Following this activity, ask the children to research another fossilised creature of their choice.
- Slides 28 and 29: Useful links.
- Slide 30 is for any questions.
- Slide 31 ends the lesson.



Further Reading

Stone Girl Bone Girl: The Story of Mary Anning of Lyme Regis

<https://www.hive.co.uk/Product/Laurence-Anholt/Stone-Girl-Bone-Girl--The-Story-of-Mary-Anning-of-Lyme-Regis/6974560>

The Pebble in My Pocket : A History of Our Earth

<https://www.hive.co.uk/Product/Meredith-Hooper/The-Pebble-in-My-Pocket--A-History-of-Our-Earth/17950732>

Children of Time: Evolution and the Human Story

<https://www.hive.co.uk/Product/Anne-H-Weaver/Children-of-Time--Evolution-and-the-Human-Story/15567519>

When we became humans: Our incredible evolutionary journey

https://www.amazon.co.uk/When-We-Became-Humans-Evolution/dp/1786038870/ref=sr_1_12?crid=1ZWVPGROPVL26&keywords=human+evolution+children&qid=1650881855&s=books&sprefix=human+evolution+children%2Cstripbooks%2C81&sr=1-12&asin=1786038870&revisionId=&format=4&depth=1

Amazing Evolution: The Journey of Life

https://www.amazon.co.uk/Amazing-Evolution-Journey-Anna-Claybourne/dp/1782406360/ref=sr_1_8?crid=2BK5BX6UGGMZG&keywords=evolution+for+children&qid=1650881595&s=books&sprefix=evolution+for+children%2Cstripbooks%2C85&sr=1-8

All About Evolution (Big Questions) Paperback

https://www.amazon.co.uk/All-About-Evolution-Big-Questions/dp/0241243661/ref=sr_1_4?crid=2BK5BX6UGGMZG&keywords=evolution+for+children&qid=1650881545&s=books&sprefix=evolution+for+children%2Cstripbooks%2C85&sr=1-4

The Street Beneath My Feet (Look Closer)

https://www.amazon.co.uk/Street-Beneath-My-Feet/dp/1784937312/ref=pd_bxgy_img_scc/2/134-8357176-3182241?pd_rd_w=O1fj7&pf_rd_p=424ee22f-2317-49a5-9cbb-bc8836ac7d96&pf_rd_r=DK0GJ4G38G08V2F1M4CM&pd_rd_r=d920603c-85eb-4ecd-9c1b-1792c1e8fabe&pd_rd_wg=7t7N9&pd_rd_i=1784937312&psc=1



Evolution and Inheritance: Lesson 6



What dinosaur is this the fossil of?

.....

What do you think it ate? What evidence can you see for this?

.....

.....

What other evidence could you use to learn about where it lived?

.....

.....

How did it get around? What evidence can you see for this?

.....

.....

Is this creature extinct or has it evolved into a creature living on Earth today?

.....

.....



Evolution and Inheritance: Lesson 6



What dinosaur is this the fossil of?

.....

What do you think it ate? What evidence can you see for this?

.....

.....

What other evidence could you use to learn about where it lived?

.....

.....

How did it get around? What evidence can you see for this?

.....

.....

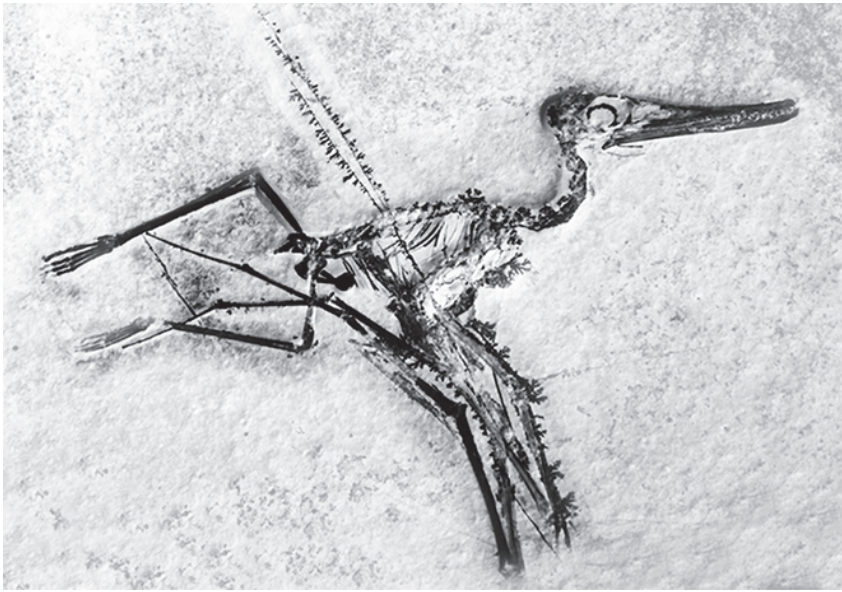
Is this creature extinct or has it evolved into a creature living on Earth today?

.....

.....



Evolution and Inheritance: Lesson 6



What dinosaur is this the fossil of?

.....

What do you think it ate? What evidence can you see for this?

.....

.....

What other evidence could you use to learn about where it lived?

.....

.....

How did it get around? What evidence can you see for this?

.....

.....

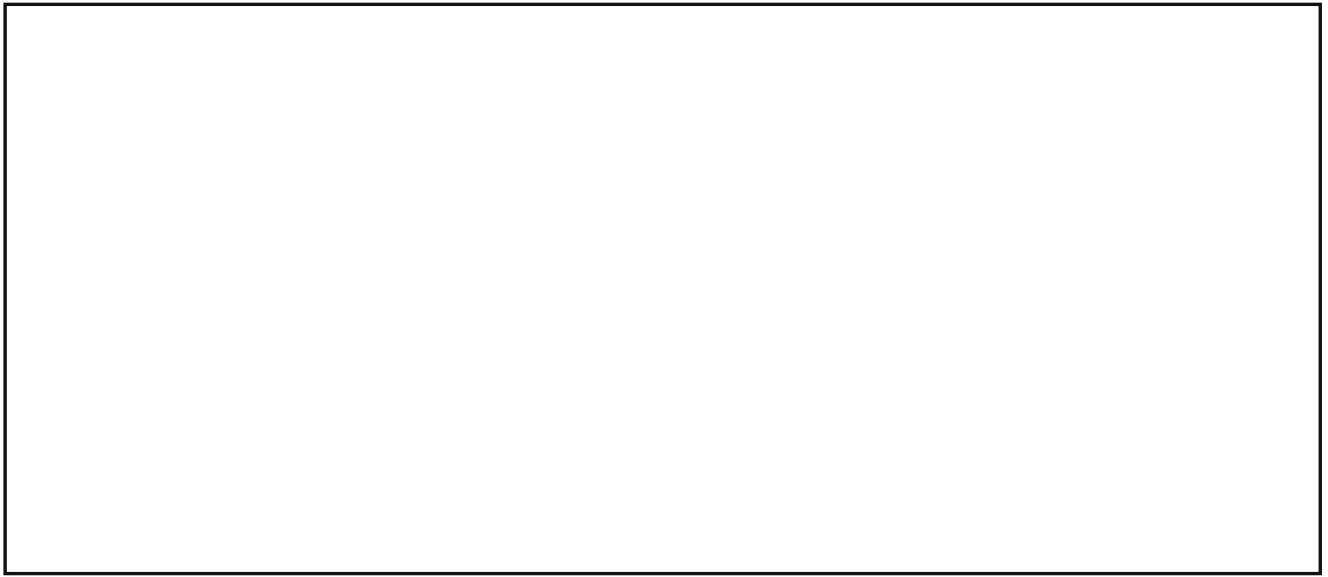
Is this creature extinct or has it evolved into a creature living on Earth today?

.....

.....



My dinosaur fossil



What dinosaur is this the fossil of?

.....

What do you think it ate? What evidence can you see for this?

.....

.....

What other evidence could you use to learn about where it lived?

.....

.....

How did it get around? What evidence can you see for this?

.....

.....

Is this creature extinct or has it evolved into a creature living on Earth today?

.....

.....



Evolution and Inheritance: Keywords Flashcards



Fossil

Fossilisation

Evolve

Evolution

Archaeologist

Palaeontologist

Geologist



Fossil



Fossilisation



Evolve



Evolution



Archaeologist



Palaeontologist



Geologist

