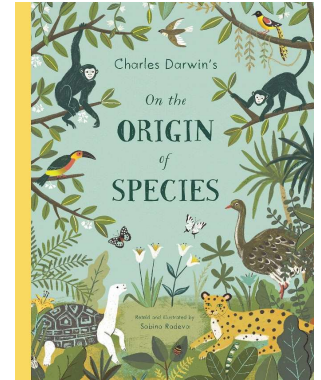


# Science: Evolution, Adaptation and Inheritance

## Lesson 1 – Charles Darwin



Read the following pages from *On the Origin of Species*. Complete the activities for each page.

### Glossary

Keep a glossary of new words and their definitions.

### Page 1

On the left side of the page you can see dinosaurs and other animals from about 150 million years ago. Which of these animals can we still see living today?

### Page 2

Look at the picture of the world on the left. Who are the two people in the picture?

Jean-Baptiste Lamarck thought that animals evolved (changed over time) by using certain body parts more than others. He was “a little off the mark with that theory.” This means.... (choose one)

- a) He was completely wrong.
- b) He was close but not exactly right.
- c) He was completely right.

### Page 3

Find out about **Charles Darwin**. You can use these questions to help you organise your research:

Where and when was he born? What did he study? Where did he travel on the HMS Beagle? What did he find there?



There is a video about Charles Darwin on the Espresso website:

[https://central.espresso.co.uk/espresso/primary\\_uk/subject/module/video/item324161/grade2/module321128/index.html?source=search-all-all-all&source-keywords=charles%20darwin](https://central.espresso.co.uk/espresso/primary_uk/subject/module/video/item324161/grade2/module321128/index.html?source=search-all-all-all&source-keywords=charles%20darwin)

Username: student 23616

Password: coding

Here is a BBC video about Darwin's thinking:

[https://www.youtube.com/watch?v=JOk\\_OmUT\\_JU](https://www.youtube.com/watch?v=JOk_OmUT_JU)



A long, long time ago, before humans even existed, the living world looked very different from how it looks today. Since life on Earth began, tiny organisms, plants and animals have been changing slowly, over millions of years, because of a process we call **evolution**.



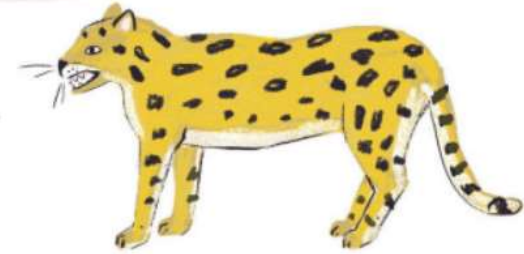
For most of human history, many people believed that everything in the world was created all at once. They thought that plants, animals and people were always the same as they are now.

But there were a few clever and curious scientists around who challenged this idea.



Georges-Louis Leclerc de Buffon

Animals change over time, and they often look different in different parts of the world.



Jean-Baptiste Lamarck

Hmm, perhaps giraffes who give their necks a good stretch to reach the higher leaves will go on to have baby giraffes with extra-stretched necks?

French biologist Jean-Baptiste Lamarck liked the idea that some animals evolved by using certain body parts more than others. It turned out he was a little off the mark with that theory, but it certainly did get people thinking!

It was right to notice that living things changed – or evolved – over time, but nobody was quite sure how this happened.



Darwin travelled the globe on board the HMS *Beagle*, visiting wondrous lands, studying animals and collecting fossils. Many things excited and amazed him on his adventures, and he wrote them all down as accurately as he could.

Soon though, the world came to know Charles Darwin, an English naturalist who would change people's understanding of how different species came to be.