

# EVOLUTION GALLERY

## SELF-GUIDED VISIT LEVEL 2

1) This exhibition does not tell the long history of life on Earth in detail, from its origins to the present day, but instead it concentrates on 6 periods when important and spectacular evolutionary changes took place. Write the names of these periods in the correct place on the timeline below:

488-542 million years ago	359-416 million years ago	295-359 million years ago	145-199 million years ago	34-55 million years ago	Today
..... .....	..... .....	..... .....	..... .....	..... .....	..... .....

2) How old are the first traces of life found so far? .....

- 3) Precambrian Period fossils are all:
- a) terrestrial animals
  - b) marine animals
  - c) flying animals

### CAMBRIAN PERIOD

- 4) True or False?
- a) Organisms which looked like modern jellyfish or worms existed in the Cambrian Period **TRUE / FALSE**
  - b) All the animals which lived in the Cambrian Period were blind **TRUE / FALSE**
  - c) There were no predators in the Cambrian Period **TRUE / FALSE**

5) Why have we found more fossilised remains from the Cambrian Period than from earlier periods?  
.....

### DEVONIAN PERIOD

6) What am I?



*Goniatite*



*Pacoderm*

I look like a modern mollusc called Nautilus. My spiral-shaped shell was used to help me float. I am an

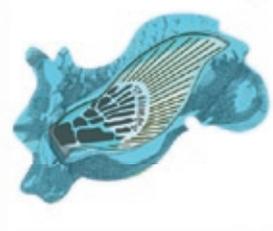
\_\_ **W** \_\_ \_\_ \_\_ \_\_ **E**

I am a fish and my body is covered with armoured plates. I have a powerful jaw. I am a **P** \_\_ **CO** \_\_ \_\_ \_\_

7) Complete the phrases below



----- flipper



----- flipper

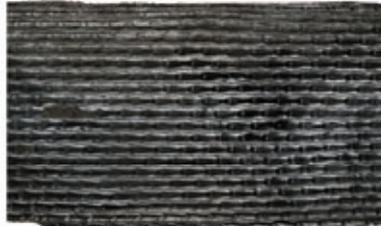
The ----- type flippers evolved into the feet of ----- which allowed them to climb out of the water.

## CARBONIFEROUS PERIOD

8) In the Carboniferous Period, the climate was \_\_\_\_\_

9) Look at the fossils found in Belgium in the first display cases.

What is this one?



- a) alligator skin
- b) trunk of a giant fern
- c) beehive

10) Choose the correct option and draw a circle around it:

**Before/After** plants, animals climbed out of the water. The first were the **gastropods/ the arthropods or starfish.**

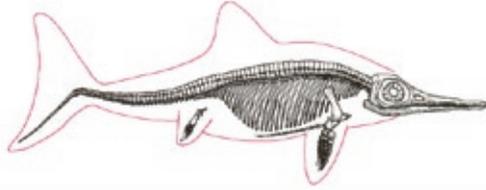
While fish used **gills / lungs** to breath, the first terrestrial tetrapods used **gills / lungs.**

11) How big is this dragonfly (Meganeuridae) from the Carboniferous Period? 2cm, 10cm, 40cm



## JURASSIC PERIOD

12) In the Jurassic Period, dinosaurs dominated life on Earth and flying reptiles dominated the air (see Dinosaur Gallery). Here we will concentrate on marine life. Some reptiles returned to live in the water and became dominant predators. Write down the names of these two marine reptiles:

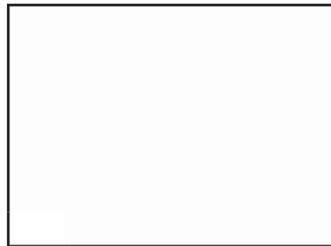


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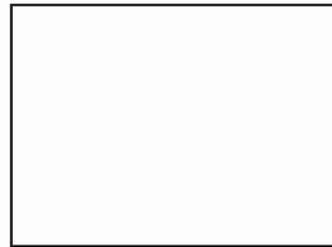


\_ \_ E \_ \_ \_ \_ R \_ S

13) We have found many fossilised ammonites and belemnites from the Jurassic Period. Draw one of each below



*Ammonite*



*Belemnite*

## EOCENE EPOCH

14) We have found \_\_\_\_\_ from the Eocene Epoch in the subsoil of Brussels.



What is this? \_\_\_\_\_

We can deduce that the climate was \_\_\_\_\_

15) The first birds appeared in the Cretaceous Period, 125 million years ago, but it was during the Eocene Epoch that they diversified.

a) write down the name of a flying bird \_\_\_\_\_

b) write down the name of a running bird \_\_\_\_\_

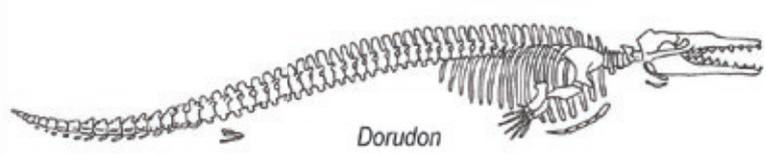
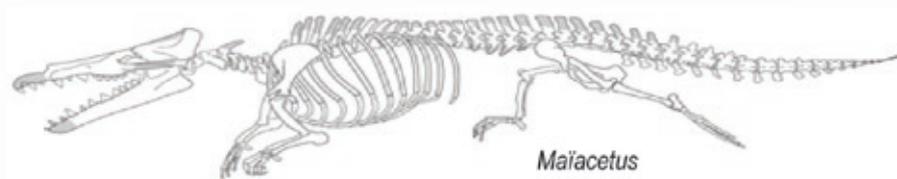
16) Mammals existed at the time of the dinosaurs but they did not begin to diversify until after the dinosaurs became extinct. During the Eocene Epoch, there were:

a) terrestrial mammals e.g. \_\_\_\_\_

b) flying mammals e.g. \_\_\_\_\_

c) marine mammals e.g. \_\_\_\_\_

17) The ancestors of modern whales were terrestrial animals called ungulates (hoofed animals) which adapted to marine life. Dorudon was better adapted to marine life than Maïacetus (see below). Draw circles around these adaptations.



**PRESENT DAY**

18) Choose the right options in the text and draw circles around them:

The evolution of the cow into the Bleu-Blanc Belge is a NATURAL / ARTIFICIAL evolution. HUMANS / NATURE influenced the evolution of this animal from a DAIRY / BEEF cow into a DAIRY / BEEF cow. The animals were selected to produce MORE / LESS meat.



19) Is evolution still going on today? \_\_\_\_\_