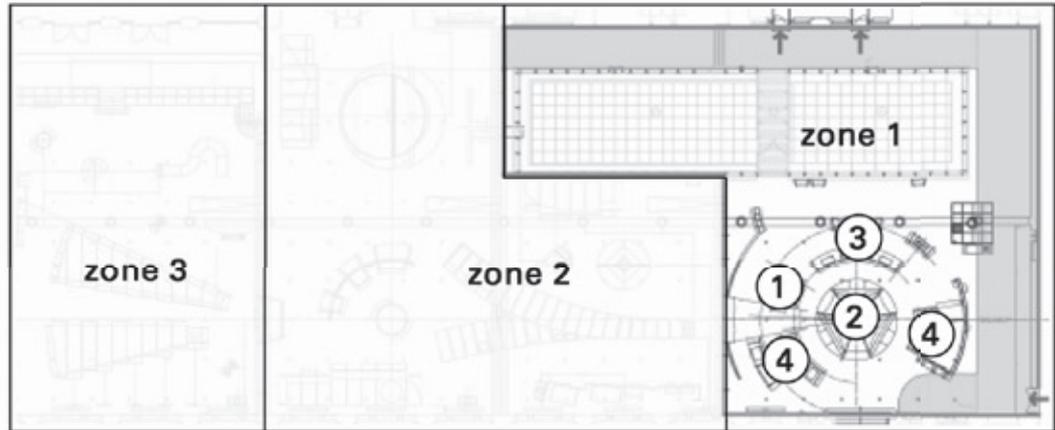


# DINOSAUR GALLERY

## SELF-GUIDED VISIT LEVEL 4

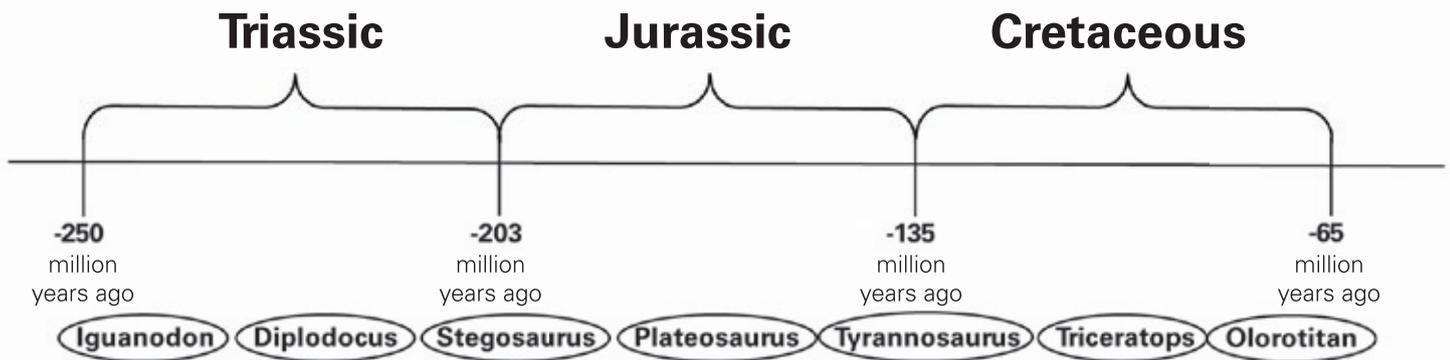
### zone 1

Under  
our feet



### Golden thread

Dinosaurs ruled the Earth 165 million years ago. During your visit of the **three zones** of the Dinosaur Gallery, you can admire many skeletons. Place the dinosaurs listed below in the right place on this timeline.



### Go to level -1 through the glass tunnel

1) The first major discovery of several complete dinosaur skeletons was in a coal mine in the Province of Hainaut in Belgium. Today they are known as the Bernissart \_\_\_\_\_

They were discovered in March 1878, in the Sainte-Barbe mine, 322m below ground level. These dinosaurs had lived in Bernissart between \_\_\_\_ and \_\_\_\_million years ago.

How can we accurately date how old they are?

(circle the correct answer)

- by measuring the radioactivity in the soil around them
- by analysing pollen and spores found in the soil
- by using Carbon-14

2) What is a fossil?

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3) Much more than just dinosaurs were discovered at Bernissart. Several thousand other fossils were discovered in the same coalmine. Tick the fossils found from the list below:

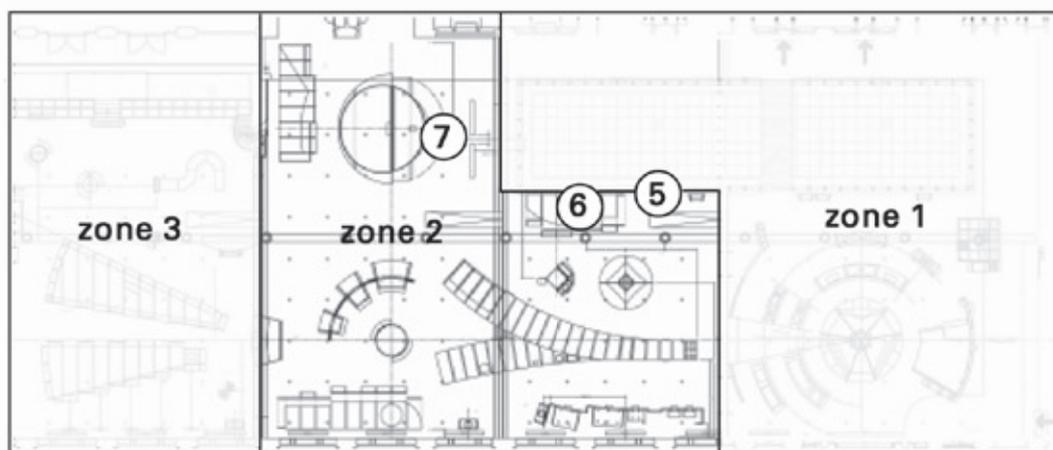
Fish		Crocodiles	
Turtles		Eggs	
Birds		Ferns	
Pine cones		Rabbits	

4) Palaeontologists from this museum are working at several digs in Europe and Asia. Where exactly are these digs?

Example of discovered fossils

country	name	condition of fossilization

**zone 2**  
**Living animals**



**Go down the steps by the Diplodocus**

5) The iguanodons in the glass cage walked on how many feet? \_\_\_\_\_

Why and when were they mounted in this posture? \_\_\_\_\_

One of the iguanodons outside the glass cage is positioned on all fours. Why and when was it mounted in this position? \_\_\_\_\_

\_\_\_\_\_

Go down the stairs: on the right are some casts of footprints. Stop behind them.

6) What data do we have on how fast dinosaurs moved?

\_\_\_\_\_

\_\_\_\_\_

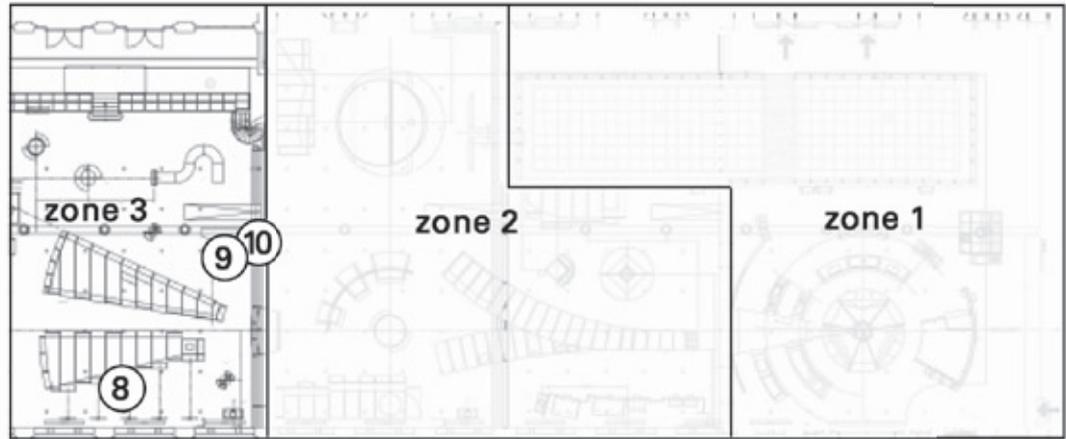
Continue towards the windows to the podium with the Maiasaura's nest.

The Maiasaura is one of the rare dinosaurs for which we know all the stages of growth, from embryo to adult.

7) How can we tell how old the little Maiasauras are and how fast they grew? \_\_\_\_\_

A newborn Maiasaura was \_\_\_ cm tall. Two years later it was almost \_\_\_m tall and at the age of 8 years, it

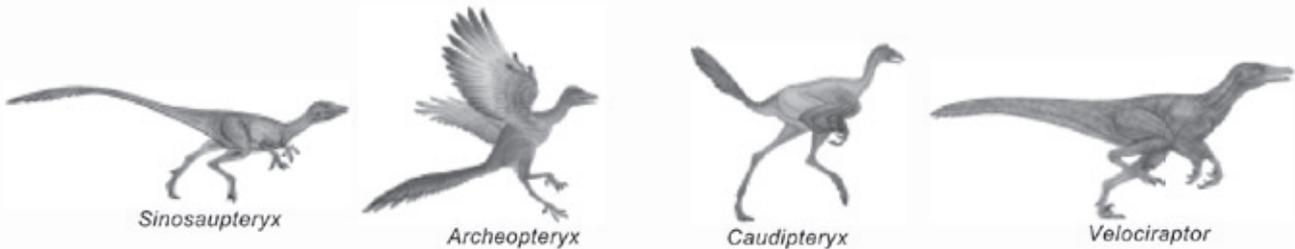
**zone 3**  
Still  
with us



**Go to the Tyrannosaurus podium**

Birds are descended from theropods. One piece of evidence is that these dinosaurs had more or less fully-developed feathers.

8) What type of feathers did the following theropods have? Draw a line to link the correct type of feather to the correct theropod.



down



asymmetrical  
feather



symmetrical  
feather

**it could fly**

**it could not fly**

Return to the stairs, you will find two screens which explain cladistics

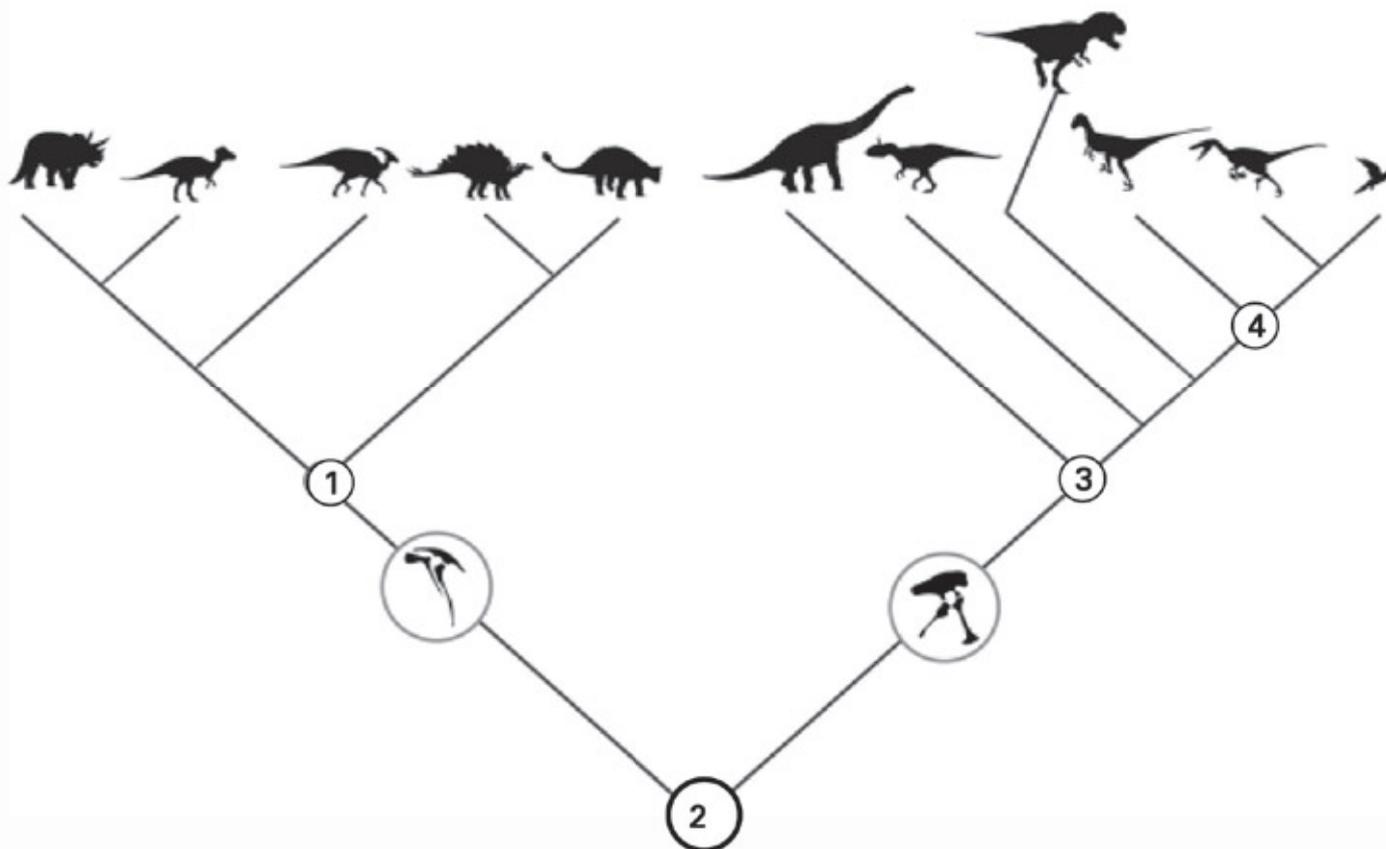
Mankind has always tried to classify living creatures. Cladistics is one method of doing this.

9) What is the reading of a cladogram based on? \_\_\_\_\_

\_\_\_\_\_

**Go and stand in front of the metal structure which represents a dinosaur cladogram with its principal branches. You will find something to help you answer the next question under this cladogram.**

10) Write on the cladogram below the new criteria which determine the start of a new branch. What is this new branch called?



- Pubis pointing down and forwards (saurischian)  
Pubis pointing down and backwards (ornithischian)
- No feathers  
Feathers
- Herbivore with back covered in bony plates in the skin  
Herbivore with the back of its skull extended by a thick crest or a large bony collar
- Long neck (at least 10 vertebrae) small skull,  
Walked on two feet, always carnivorous