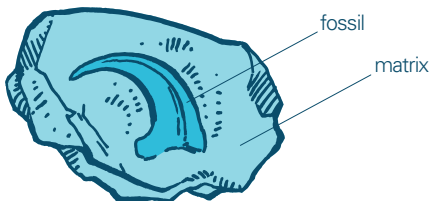


FOUNDATIONS

1. Find the *Fossils and Fossilization* display. Watch the video and read the display to learn about fossilization. **How do fossils form? Explain the process, name three different types of fossils, and give an example for each.**

PREPARATION LAB

2. The Preparation Lab is where our technicians work removing the rock (*matrix*) from fossils, repairing fossils, and building supports to get them ready for research and display.



What is currently being prepared in the Lab?

BREAKTHROUGHS

3. Alberta has a rich fossil record. Some of these fossils are truly exceptional, providing us with new information about ancient life.

Name three examples of specimens that have rare fossil preservation of soft tissues (e.g., cartilage, keratinous tissue, or skin).

INVASION OF LAND

4. The diorama located at the bottom of the spiral staircase represents the invasion of land by plants and animals. The progression of life on land covers approximately 178 million years and moves from right to left. **What changes do you notice in the plants of the diorama as time progresses (i.e., kinds of plants, size, and diversity)? Draw and label your observations.**

SILURIAN PERIOD

EARLY DEVONIAN

LATE DEVONIAN

CARBONIFEROUS PERIOD

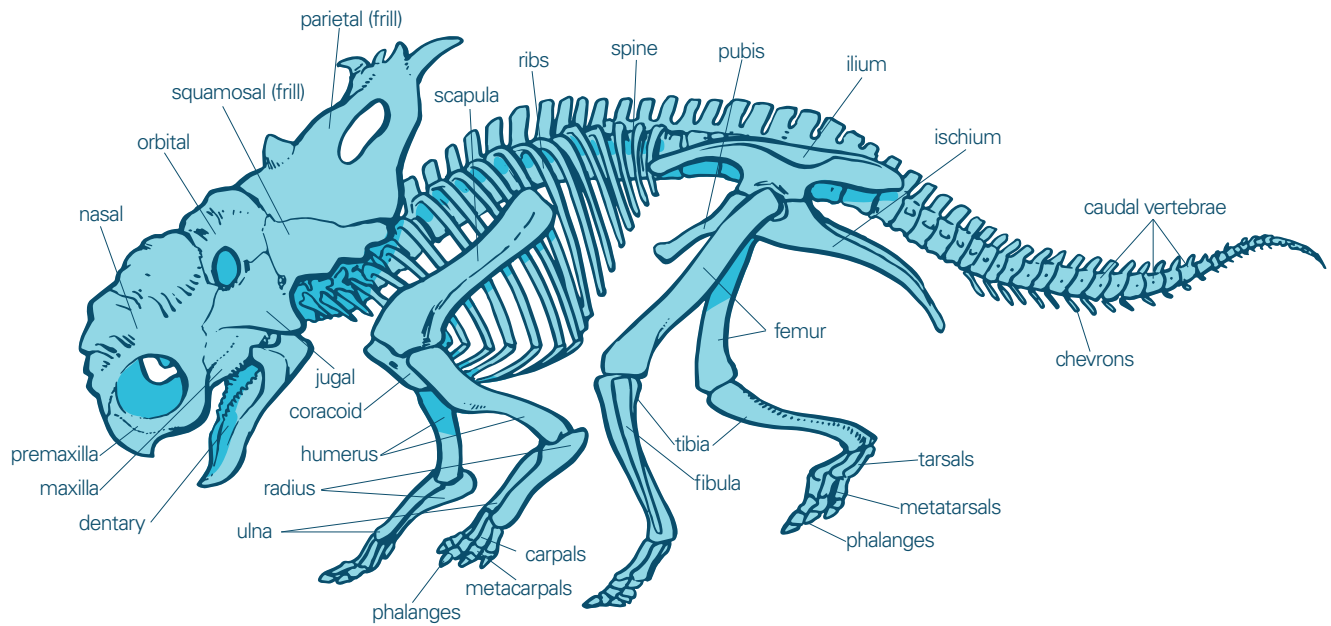
PERMIAN PERIOD

CRETACEOUS GARDEN

5. The plants in the *Cretaceous Garden* represent those found in the fossil record of the Drumheller area during the Late Cretaceous (75 – 70 million years ago). These plants were selected based on similar fossil plants, pollen, and spores.

What differences do you notice between the climate and plants of the garden and those that you see in Alberta today?

Can you name a place that has a similar climate to the Garden today?



Pachyrhinosaurus lakustai

DINOSAUR HALL and the BEARPAW SEA

6. *Dinosaur Hall* contains many fossilized animals—some are dinosaurs and some are not. Dinosaurs are a diverse group of animals that first appeared in the Mesozoic Era (252 – 66 million years ago) that walked with their hind limbs held straight beneath their body.

List 5 fossil animals found in *Dinosaur Hall* that are dinosaurs, and 5 animals that are *not* dinosaurs.

DINOSAURS	NOT DINOSAURS

STRETCH YOUR SKETCHING MUSCLES

7. The Royal Tyrrell Museum exhibits many fossils from Alberta and around the world.
Make a simple sketch of your favourite fossil at the Museum.

INFORMATION

What is this fossil called?

How old is it?

Why did you pick this fossil?

What is a question you have about this fossil?