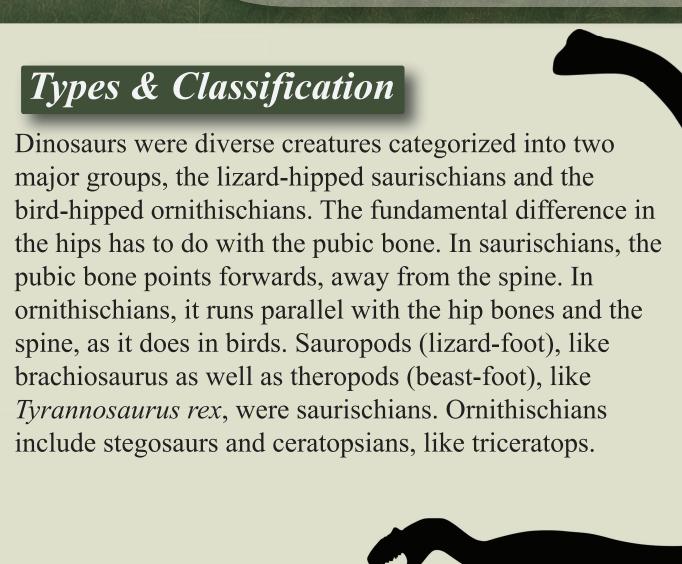
Dinosaurs

Evidence that dinosaurs once lived on Earth has been found in sediments from all the continents. This evidence consists of bones, eggs, nests, and footprints.



Styracosaurus

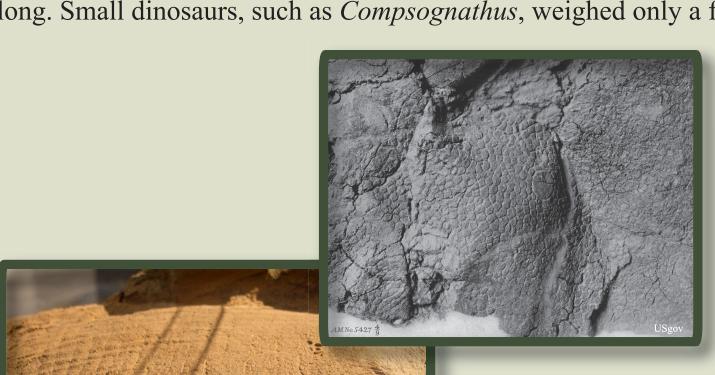
Dinosaurs are found in sedimentary rocks thought to have been deposited in diverse habitats including: Habitat swamps, rivers, beaches, lakes and deserts. Plants and other organisms buried with dinosaurs provide further clues to their habitat.



Compsognathus Size

Most dinosaurs ranged in size from large rabbits to cow-sized creatures; a few were exceptionally large. Sauropods (lizard-hipped dinosaurs) were the largest known land animals. *Dreadnoughtus*, the largest sauropod yet discovered, is thought to have weighed 59 tons and to have been 26 m (86 ft) long. Small dinosaurs, such as Compsognathus, weighed only a few kilograms and were around 1 m (39 in) long.

Allosaurus



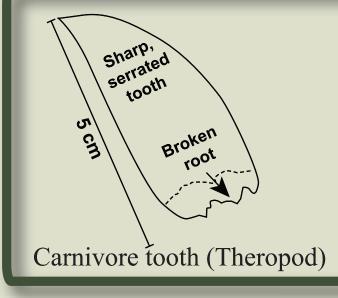
Appearance

Dinosaur bones and fossilized skin impressions give us a good idea of their appearance. Bones tell us a dinosaur's basic dimensions, and muscle attachment scars provide information about their muscles. Rare skin impressions (left) show their skin texture, but skin color is currently a guess based on modern reptile coloration.

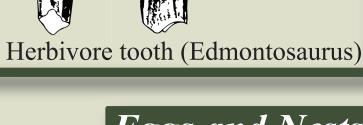
Brachiosaurus



Fossilized dinosaur dung (called "coprolites") along with the shape of dinosaur teeth and their fossilized stomach contents, provides information about dinosaur diets. Sharp serrated teeth are found in meat-eating dinosaurs, both in hunters and scavengers. While some carnivores, like *Tyrannosaurus rex*, grew very large in size, the biggest dinosaurs ate plants. Plant-eating dinosaurs tended to have more teeth than carnivores, and these teeth were either flat for crushing or chisel-shaped for cutting vegetation.

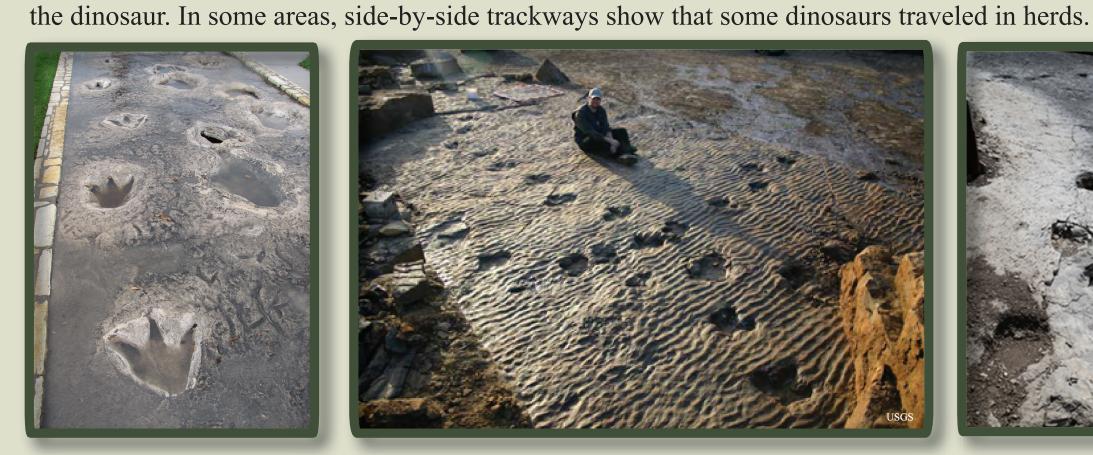






Eggs and Nests

Fossilized dinosaur eggs have been found in many places around the world. They are sometimes arranged as in a nest (top picture below) and may be found along with adult skeletons (bottom left picture). This has been interpreted as evidence that dinosaurs cared for their offspring. In some cases, the embryo has been found preserved inside the egg (bottom right picture). Dinosaur eggs had a mineralized shell, like bird eggs, rather than the leathery shells of living reptiles.



Footprints & Locomotion

Dinosaurs left footprints in wet mud and

sand just as modern animals do. Dinosaur

continent and are abundant in some areas.

The largest found are around 2 m (6.5 ft) in

diameter, although that size is exceptional.

dinosaur footprints are typically three-toed,

resembling large versions of some modern

bird footprints. Paleontologists can often

footprints. No matter which species they

identify the species that made specific

information about dinosaur size, gait,

came from, these footprints give

footprints have been found on every

Sauropod footprints are usually round.

Most sauropod footprints were

60 - 100 cm (24 - 39 in). Theropod

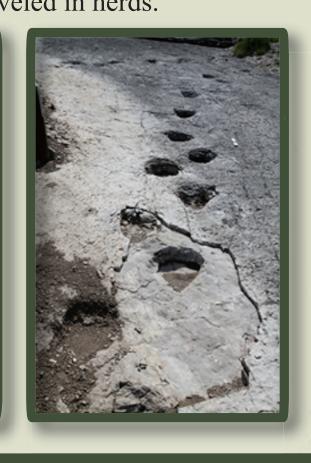


speed and behavior. Trackways of dinosaur footprints reveal that some dinosaurs were bipedal, walking on

just their back legs, such as the *Tyrannosaurus rex*, and others walked on all fours, like the stegosaur. Both

characteristics can tell us if the dinosaur was running or just ambling along. It may also indicate the size of

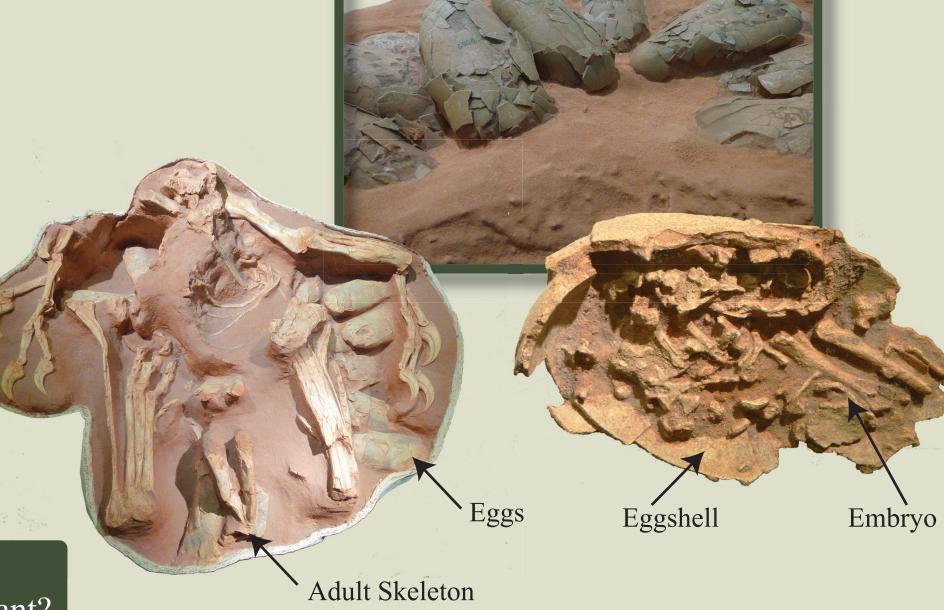
saurischian and ornithishian dinosaurs had species in both categories. Stride length, along with other



Plateosaur

(4.8–10 m [16–33 ft] long and weigh

600–4000 kg [1300–8800 lbs])



Questions:

Dinosaur footprints are very abundant, much more than skeletons. Why are they so abundant? What evidence is used to infer the habitat in which a dinosaur lived?