

Evidence of Evolution-Answers in gray

Background

When Charles Darwin first proposed the idea that all new species descend from an ancestor, he performed an exhaustive amount of research to provide as much evidence as possible. Today, the major pieces of evidence for this theory can be broken down into the fossil record, embryology, comparative anatomy, and molecular biology.

Fossils

This is a series of skulls and front leg fossils of organisms believed to be ancestors of the modern-day horse.

Source: <http://www.iq.poquoson.org>

1. Give two similarities between each of the skulls that might lead to the conclusion that these are all related species.

the pointy bone on top of the muzzle of the horse and the triangular shape of the head and the gap between front and rear teeth

2. What is the biggest change in skull anatomy that occurred from the dawn horse to the modern horse?

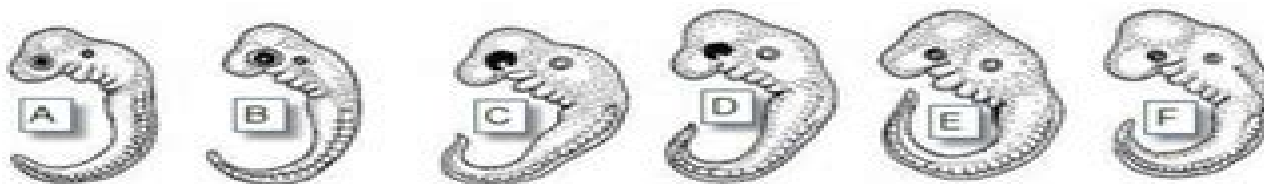
Increase in the size of the skull; a shift from cusps to complex ridges on the grinding surface of the premolars and molars, elongation of the face and of the space between the incisors and cheek teeth, an anterior shift of the cheek teeth so they lie forward of the eye; a deep lower jaw bone;

3. What is the biggest change in leg anatomy that occurred from the dawn horse to the modern horse?

Fifty five million years ago, there was an animal the size of a small dog, called *Hyracotherium* (sometimes called *Eohippus*). Its front feet had four toes, and its back feet had three. Modern horse feet have a single hoof. We see the reduction and loss of the side toes and enlargement of the terminal phalanx (hoof) elongation and enlargement of the central metapodial (the longest bone in the foot)

Embryology

Organisms that are closely related may also have physical similarities before they are even born! Take a look at the six different embryos below:



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Sidney Calhoun Tapp



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