

Evidence for evolution and classification

Ardi: age and key features?

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Lucy: age and key features?

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**What did Richard Leakey's team find,
and how old is it?**

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**Put Ardi, Lucy and Leakey's fossils in
order, oldest first.**

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**Why is fossil evidence for human
evolution incomplete?**

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**Write 4.4 million years in standard
form.**

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How do stone tools change over time?

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**How can stone tools be dated from
their environment?**

3.2 million years ago. Walked upright on two legs, with a small brain.

4.4 million years ago. Walked upright but had a grasping big toe, so could still climb trees.

Ardi (4.4 million), Lucy (3.2 million), Leakey's (1.6 million years ago).

Fossils from 1.6 million years ago, including a nearly complete skeleton with a larger brain and longer legs, much more like a modern human.

4.4×10^6 years.

Fossils are rare and often incomplete, because most remains decay before they fossilise.

By the age of the rock layer or materials found with them.

They become more complex and better made, showing greater skill and intelligence.

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What is a pentadactyl limb?

Evidence for evolution and classification **Triple only**

What does the pentadactyl limb suggest about evolution?

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Name the five kingdoms.

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Name the three domains.

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What led to the suggestion of three domains?

Similar bone structure suggests a common ancestor, with limbs adapted by natural selection for different functions.

A limb with five digits, found in many vertebrates.

Archaea, Bacteria and Eukarya.

Animals, plants, fungi, protists and prokaryotes.

Genetic analysis showed that the prokaryotes are not one closely related group.