



Knowledge is Neah!

Palaeontology

HAVE YOU EVER WONDERED:

- HOW SCIENTISTS KNOW SO MUCH ABOUT DINOSAURS?
- · WHY AFRICA IS KNOWN AS THE BIRTHPLACE OF HUWANKINDS



DEMONSTRATION:

MAKE AN IMAGINARY PREHISTORIC CREATURE OUT OF RUBBISH

WHAT YOU WILL NEED:

Various pieces of rubbish (e.g. bottles, tubs, tins, empty toilet rolls, boxes, etc.), glue, sticky tape, scissors, paint (optional)

What to do:



Make an imaginary "profile" for your creature by answering these questions:

- a) Where in South Africa did your creature live? What was the climate like?
- b) Did it spend most of its time on land, in water or in the sky?
- c) What did it eat? Was it a herbivore, carnivore or omnivore?



Using the profile, design your creature and do a rough sketch if necessary. (E.g. If it ate meat, what would its teeth have looked like?)



Use the rubbish you have found to build your creature. You could paint it too.

What is happening?

You used your creature's imaginary profile to determine its body structure. Palaeontologists work the other way round! They study structural remains of an ancient creature to determine what its "profile" was. They're like detectives examining clues left behind in fossilised bones and teeth! Woah!



BUT BESIDES
DINOSAURS
BEING REALLY
COOL, WHY DO
PALAEONTOLOGISTS
DO THIS???

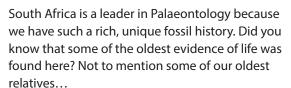
Well, it helps us understand how life on earth has developed and how climate change and other disasters have affected our planet. And these days it's also important because it may help us understand the current environmental crisis that global warming and population growth are causing. Awesome, hey?



CURRICULUM LINKS:

- Knowledge area: Diversity,
 Change and Continuity
- Themes: History of life on earth, Human evolution

SAY HELLO TO YOUR LONG-LOST RELATIVE!



Meet Australopithecus sediba!



Cranium of the juvenile male nicknamed "Karabo" www.wits.ac.za/bpi/

He is a recently discovered species of human ancestor and is probably about 1,98 million years old! He was found with 5 others in Malapa Cave at the Cradle of Humankind World Heritage Site in Gauteng, from 2008 onwards.

He and his friends are super important to the world because they are providing groundbreaking information about our origins!

CAREERS

BECAUSE SOUTH AFRICA IS SUCH A RICH SITE FOR STUDYING PREHISTORIC LIFE, THERE ARE MANY CAREER OPTIONS! PALAEONTOLOGISTS, PALAEOBIOLOGISTS, GEOLOGISTS, ARCHAEOLOGISTS AND ANTHROPOLOGISTS ALL STUDY ASPECTS OF EARTH'S HISTORY — FROM EXTINCT ANIMAL AND PLANT LIFE TO ROCK FORMATION TO HUMAN SOCIETIES!







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