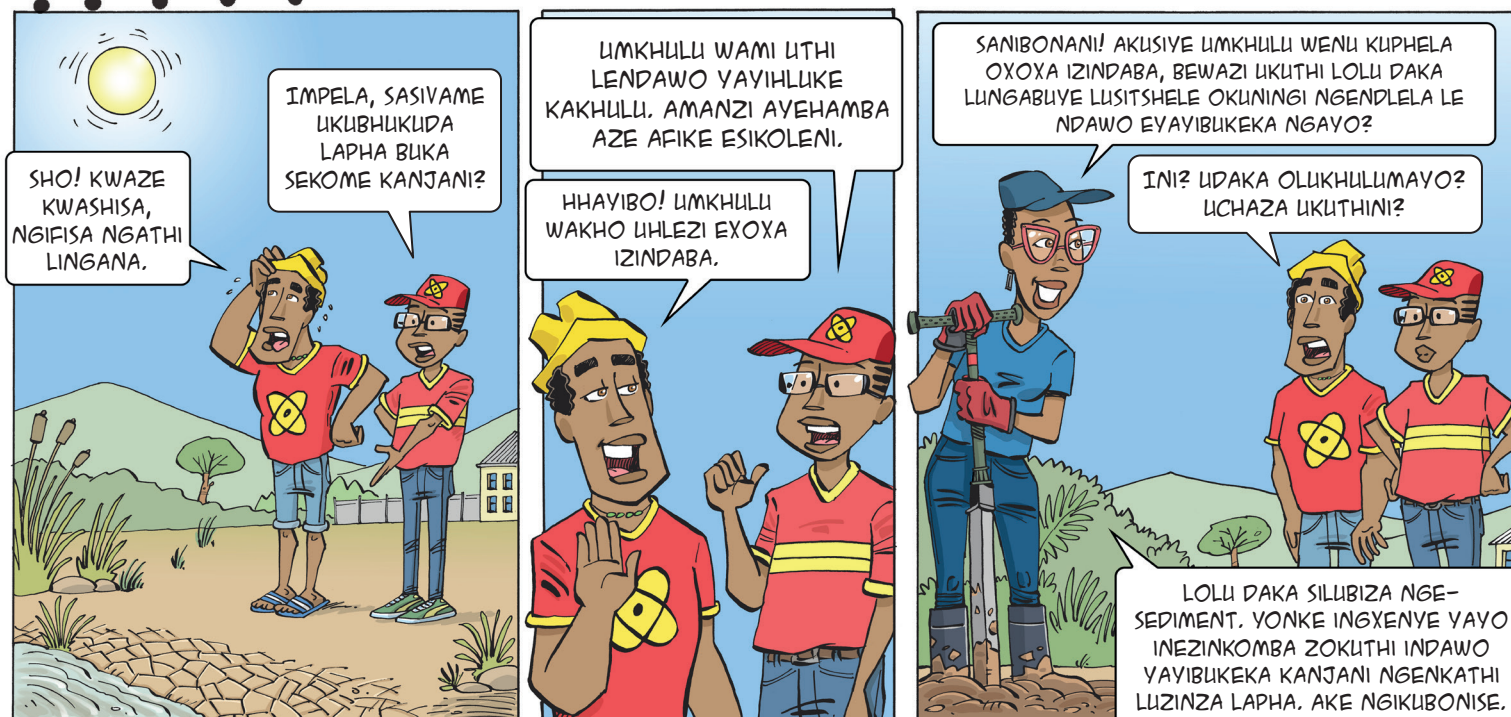


SCIENCE SPAZA

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ISAYENSI YE-SEDIMENT: IZINDABA NGODAKA LWASEMANDULO



IZINDABA KWI-SEDIMENT

IZINTO EZIFANA NESIHLABATHI NEMPOVA KUQUKETHE IZIMPAWU EZIVELA ENDAWENI LAPHO ZIVELA KHONA. UMA ISIHLABATHI SIQOKELEKA NGAPHANSI KOMHLABA SAKHA I-SEDIMENT. OSOSAYENSI BEZOMHLABA BAMBA EZINDAWENI EZINODAKA UKUZE BAQOQE ISAMPULA LE-SEDIMENT.

ELEBHU, SIFUNDA UNGQIMBA NGALUNYE LWE-SEDIMENT KANJENGENCWADI KUSUKELA KOLUDALA UDAKA NGENZANSI KUYA KOLUSHA NGA PHEZULU KWE-CORE, KANJENGOKUFUNDA INDABA KUSUKA EKUQALENI KUYA EKUGCINENI UKUFUNDA MAYELANA NGENDAWO NEMVELO EDLULE.



Photo:
Dr. Jemma Finch



Knowledge is Ncah!



IJUXUZISE NGE-SEDIMENT!



YENZA I-EXPERIMENT
UKUBONA UKUTHI
UMHLABATHI ESIKOLENI
SAKHO NASEKHAYA
LAKHO UNANI.



UZODINGA:

- INGILAZI NOMA IZIMBIZANA ZEPULASITIKI EZIBONISAYO EZINEZIVALO
- UDAKA NOMA INHLABATHI EVELA EZINDAWENI EZIMBALWA EZAHLUKENE
- AMANZI
- IRULA INCWADI NEPENI

1 FAKA UDAKA NOMA UMHLABATHI EZIMBIZANENI.



2 YENGEZA NGAMANZI ALINGANAYO KUZO ZONKE IZIMBIZANA.



3 VALA IZIVALO BESE UXUKUZISA KAHLE. MAKI IZIMBIZA BESE UZIBEKA AMAHORA ANGU-24.



4 NGOSUKU OLULANDELAYO: BHEKA IZINGQIMBA EZAKHEKE EMBIZENI NGAYINYE. QHATHANISA AMASAMPULI NGAYINYE. UYAZIBONA IZINGQIMBA NGOKUHLUKANA KWAZO? UKHONA UMEHLIKO EBUDENI BENGQIMBA NGAYINYE KUMASAMPULI AKHO?

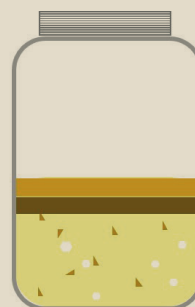


KWENZAKALANI LAPHA?

Ngemva kwamahora angu-24 amasampuli akho azozinza abe izindlelelo zobumba (clay), udaka (silt) nesihlabathi (sand). Ubukhulu bengqimba ngayinye kumasampuli akho kuzokunikeza umbono wohlobo lwenhlabathi onayo.

Ososayensi bezomhlaba basebenzisa izindlela ezahlukeni, njenge le-experiment okade uyenza, ukuFunda ngenhlabathi nokuthi imvelo yayibukeka kanjani esikhathini esidlule.

Ukungabikho bezinhlamvu zomhlaba busitshelelani? Izinhlamvu ezinkulu njengesihlabathi noma amatshe ziyasinda futhi mhlawumbe zisuke zigugulwe ngamanzi, zinika ososayensi okuthile mayelana nezimvula ngaleso sikhathi.



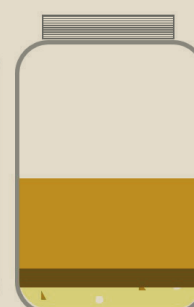
ISIHLABATHI

0-10% UBUMBA
0-10% UDAKA
80-100% ISIHLABATHI



UDAKA

10-30% UBUMBA
30-50% UDAKA
25-50% ISIHLABATHI



UBUMBA

50-100% UBUMBA
0-45% UDAKA
0-45% ISIHLABATHI

KEY

- = UBUMBA
- = UDAKA
- = ISIHLABATHI

UKULUNGISELELA IKUSASA NGOKUBHEKA INKATHI ENDLULE

Ososayensi be-Palaeo (palaeo = okwedlule) bangakha izithombe zokuthi indawo yayibukeka kanjani esikhathini eside esidlule ukuze kubonakale ukuthi yashintsha kanjani ngokuhamba kwesikhathi.

Lokhu kubalulekile ukulungiselela izinselelo zokuguquguquka kwesimo sezulu esibhekene nazo manje.



Photo: Magnus Schult



Photo: Torsten Haberzettl

IMIKHAKHA



UDarryl Dreyer

uthishela wezemvelo e-West Coast Fossil Park. UDarryl usiza abavakashi epaki baqonde ukuthi ziyini izinsalela zamathambo (fossils), zakheka kanjani futhi singafundani kuzo. "Uma siqonda ukuthi sixhumene kanjani nendawo esikuyo kusinika umqondo wokukhathalelana ngokwengeziwe sisodwa kanye nemvelo."



IZIXHUMANISI ZEKHARIKHULAMU

- *Isayensi Yezempilo Amabanga 10-12*
Ukuhlukahluka, ushintsho kanye nenqubeko: Umlando ngempilo emhlabeni;
Izifundo zezemvelo:
I-Biosphere kuya ku-ecosystems
- *Isayensi Yemvelo Amabanga 7-9*
Umhlaba njengohlelo: Umjikelezo wamadwala; Umkhathi

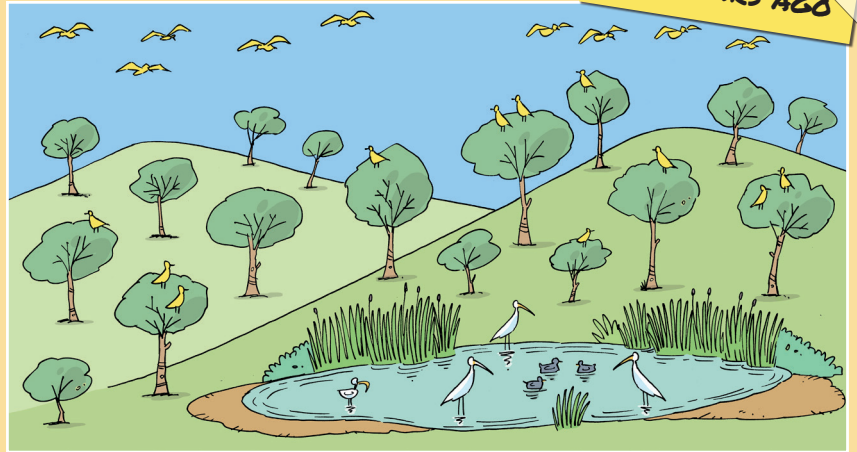
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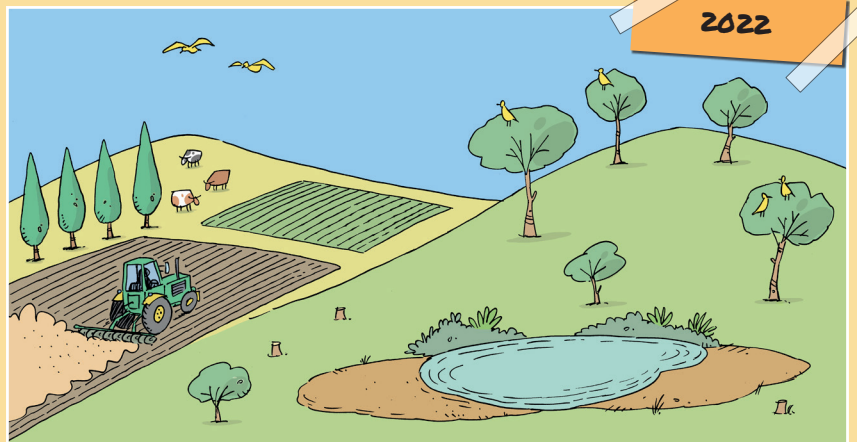
THOLA UMEHLUKO

IZINDAWO ZIYASHINTSHA NGOKUHAMBA KWESIKHATHI. LIYAWUBONA UMEHLUKO PHAKATHI KWALEZITHOMBE EZIMBILI?

CABANGA NGAkho.
XOXISANA NEQEMBU
NGALOKHO OCABANGA UKUTHI
KUBANGELE IZINGUQUKO
KULESITHOMBE.



1000 YEARS AGO



2022

Izimpendulo: 1. Uqandaganda nendawo yokulima; 2. Izihlahla ezimbala; 3. Izinyoni ezimbala; 4. Izinyoni ezimbala; 5. Ukunciphisa kwamanzi nodaka olwengeziwe; 6. Uhlolo olusha lwezitshalo eduze nepulazi kanye nasemanzini.

ZIQALELE EYAKHO I -SCIENCE SPAZA

Ingabe ufuna ukuziqalela elakho iqembu lescience esikoleni sakho?
Sithumelele le mininingwane elandelayo, i-Science Spaza izothintana nawe.

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Visit www.sciencespaza.org, email info@sciencespaza.org, SMS or WhatsApp us on 076 173 7130 or write to us at PO Box 22106, Mayor's Walk, 3208.

COMPETITION ALERT!

SITHUMELELE IZITHOMBE ZAKHO ZE-
SEDIMENT EXPERIMENT YAKHO KANYE
NEYAKHO IMICABANGO MAYELANA
NENDLELA IZINDAWO EZISEDUZE KWAKHO
EZISHINTSHE NGAYO NGOKUHAMBA
KWESIKHATHI. SITHUMELE IZIMPENDULO
ZAKHO KU-076 173 7130 NGE-
WHATSAPP US UBE SETHUBENI LOKUWINA
IMIKLOMELO!*

*top 5 entries will be
chosen to win a prize



Leli phepha lokusebenzela limele imizamo eyiqoqo ehlanganiswe ndawonye ngabahlanganyeli be-"Train-ME2 connect 2021 summer school". I-Train-ME2 Connect iyisinyathelo sokuqeqesha esiqalwe kuphrojekthi yeGerman-South Africa ethi "Tracing Human and Climate impacts in South Africa" (TRACES) okuyinhlangothi yamazwe ngamazwe ehlanganisa abacwaningi bemikhakha ehluahlukene abaxhaswe ngemali ngaphansi kohlelo l "Science Partnerships for the Adaptation to Complex Earth System Processes" (SPACES II) lwe German Federal Ministry of Education and Research (BMBF).

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