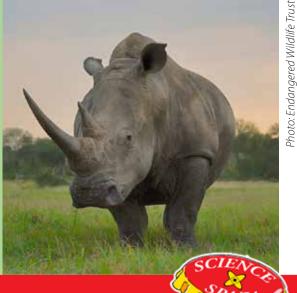


RHINOS AND BIODIVERSITY

FROM YOUR MODEL GRAPH YOU CAN SEE THAT MORE RHINOS ARE BEING POACHED EVERY YEAR. IF POACHING CONTINUES TO INCREASE, RHINOS WILL SOON BECOME EXTINCT.

IN AN ECOSYSTEM AN APEX SPECIES ("TOP" SPECIES) IS ONE THAT IS NOT EATEN BY OTHER ANIMALS. AN APEX SPECIES IS USUALLY LIMITED BY ITS FOOD SUPPLY. FOR EXAMPLE, THE NUMBER OF LIONS THAT CAN SURVIVE IN AN AREA DEPENDS ON HOW MANY PREY SPECIES (E.G. IMPALA) THEY CAN HUNT. THE LIONS CONTROL THE BALANCE OF MANY OTHER SPECIES.

RHINOS ARE AN APEX SPECIES BECAUSE THEY ARE TOO BIG TO BE HUNTED BY BIG PREDATORS, WHITE RHINOS ARE GRAZERS - THEY EAT GRASS, THE NUMBER OF WHITE RHINOS IS CONTROLLED BY THEIR FOOD SUPPLY, I.E. HOW MUCH GRASS IS AVAILABLE.



@08= BY NO ND

WHITE RHINOS INCREASE **BIODIVERSITY** BY SELECTING ONLY CERTAIN KINDS OF PLANTS - GRASSES. THIS GIVES SPACE FOR MANY OTHER KINDS OF PLANTS TO GROW. WHEN THERE ARE MORE KINDS OF PLANTS, THIS ALSO PROVIDES FOOD FOR MORE KINDS OF ANIMALS THAT DEPEND ON THOSE PLANTS. THE RESULT IS MORE BIODIVERSITY. SO, IF RHINOS BECOME EXTINCT IT MAY LEAD TO THE LOSS OF OTHER SPECIES AS WELL.



SAVING OUR NATURAL HERITAGE

100 YEARS AGO, BECAUSE OF HUNTING, THERE WERE VERY FEW WHITE RHINO LEFT. CONSERVATION EFFORTS HAVE RESCUED THEM, AND TODAY THERE ARE OVER 20 000.

BUT THERE IS A NEW THREAT – A MULTI-BILLION DOLLAR WORLDWIDE TRADE IN ILLEGAL WILDLIFE PRODUCTS. MANY PEOPLE IN THE EAST BELIEVE THAT RHINO HORNS HAVE HEALING PROPERTIES. RUMOURS ON THE INTERNET CLAIM THAT RHINO HORN CAN CURE CANCER. RHINOS ARE AGAIN UNDER SERIOUS THREAT OF EXTINCTION.

CONSERVATIONISTS ARE LISING MANY METHODS TO TRY TO SAVE ENDANGERED SPECIES LIKE THE RHINO. FOR EXAMPLE:

- MICROCHIPS ARE HIDDEN IN RHINO HORNS SO THAT SCIENTISTS CAN TRACK THE RHINOS.
- HELICOPTERS AND PLANES ARE USED TO FOLLOW RHINOS AND TRACK POACHERS.



A ranger drilling into the horn of a sedated rhino to insert a microchip Photo: Endangered Wildlife Trust

Knowledge is Ncah!

PUZZLE YOUR MIND!!!

FIND THE LISTED WORDS IN THE PUZZLE BLOCK, AND DRAW A RING AROUND EACH WORD. THE WORDS RUN IN ALL DIRECTIONS, SO LOOK CAREFULLY!

CONSERVATION PROTECTION EXTINCTION RHINOCEROS HERITAGE SAVE HORN MAMMAL MICROCHIP NATURAL POACHING PRESERVE



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Ν	0	Ι	Т	А	V	R	Е	S	Ν	0	С
Т	Н	Х	G	Ρ	Ι	R	Н	0	R	R	Н
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THERE ARE GREAT JOB OPPORTUNITIES, SUCH AS:

- ECOLOGIST
- GENETIC SCIENTIST
- PARK RANGER
- CONSERVATION
 OFFICER



Ndifenani Mulaudzi studied Nature Conservation and is currently doing her internship at EWT (Endangered Wildlife Trust) working for the rhino project, where she deals with illegal wildlife trafficking. Her job is to check how wildlife is trafficked, e.g. how poachers disguise themselves, the containers they use, the types of animals that are trafficked and methods of concealment.



CURRICULUM LINKS

- GRADE 7: LIFE & LIVING
 (THE BIOSPHERE)
- GRADE 8: LIFE & LIVING
 (THE ENVIRONMENT)
- GRADE 11: LIFE SCIENCES (HUMAN IMPACT ON ENVIRONMENT)

DO RHINOS NEED HORNS?



DE-HORNING RHINO IS ONE METHOD BEING USED TO DISCOURAGE POACHERS FROM KILLING RHINO. TALK ABOUT THIS STRATEGY. DO YOU THINK IT WILL WORK? HOW DO YOU FEEL ABOUT IT?

Photo: Kelvin Trautman, Wildlands Conservation Trust

GIVE US YOUR FEEDBACK

SEND US A PICTURE OF THE **GRAPH** YOU BUILT, AND THE MEMBERS OF YOUR CLUB WHO BUILT IT.

Send your answers and the name of your club to our Whatsapp or SMS number **076 173 7130**; email us at **info@sciencespaza.org**; Facebook us at **ScienceSpaza** or contact us through our website **www.sciencespaza.org**

START YOUR OWN SCIENCE SPAZA

Do you want to start a science club at your school? Send us the following information and Science Spaza will contact you.

 School:
 _______Name:

Telephone number:
 _______Email address:

Postal address:

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

This worksheet is sponsored by Jive Media Africa in support of efforts to save the rhino and other species threatened with extinction. www.jivemedia.co.za



