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# ENDANGERED SPECIES

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INSTRUCTOR:

WILNER BYAS

MAY 10, 2020



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ENDANGERED  
SPECIES  
HONOR

THIS HONOR IS A  
COMPONENT OF THE  
**ZOOLOGY MASTER  
AWARD**

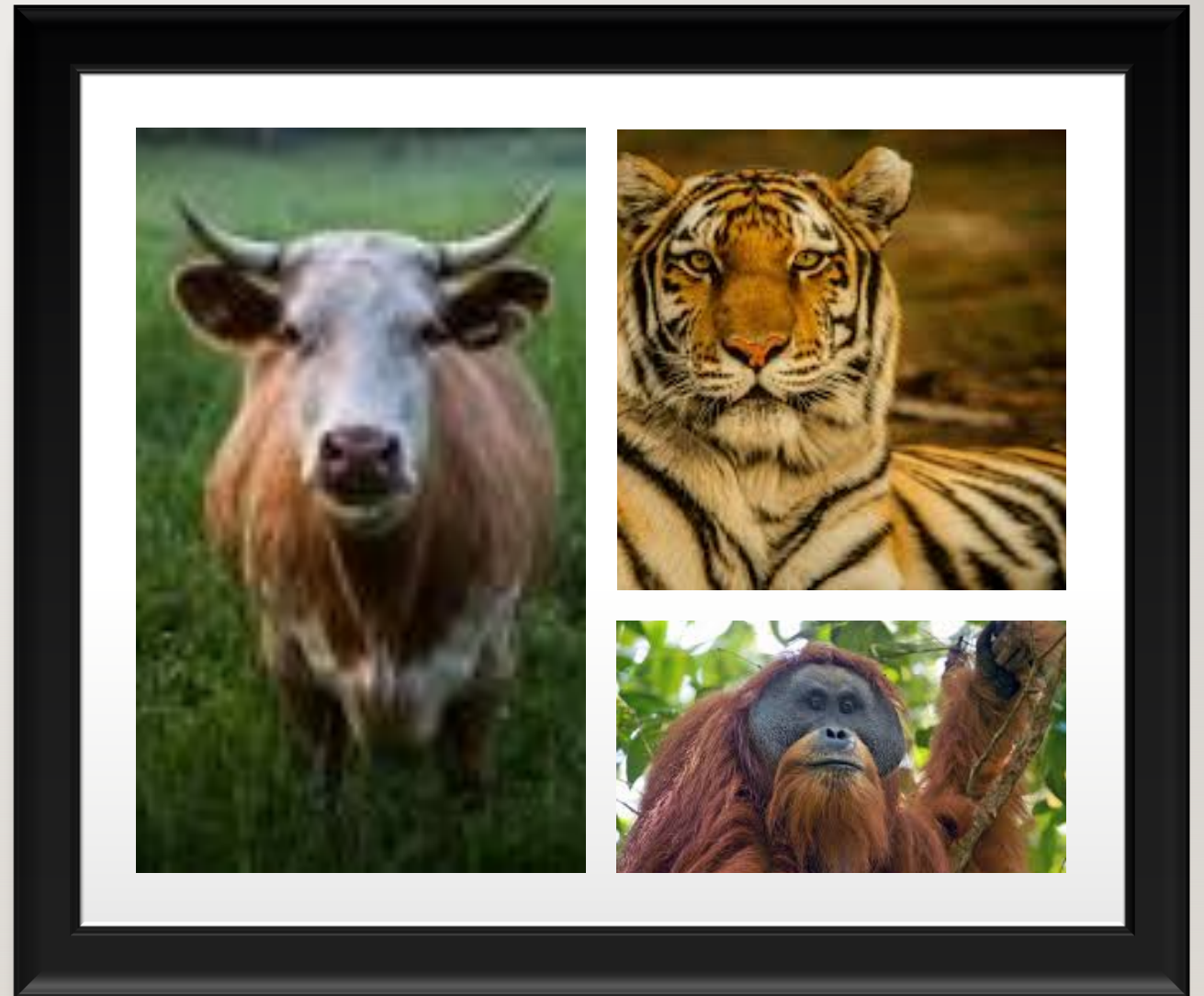
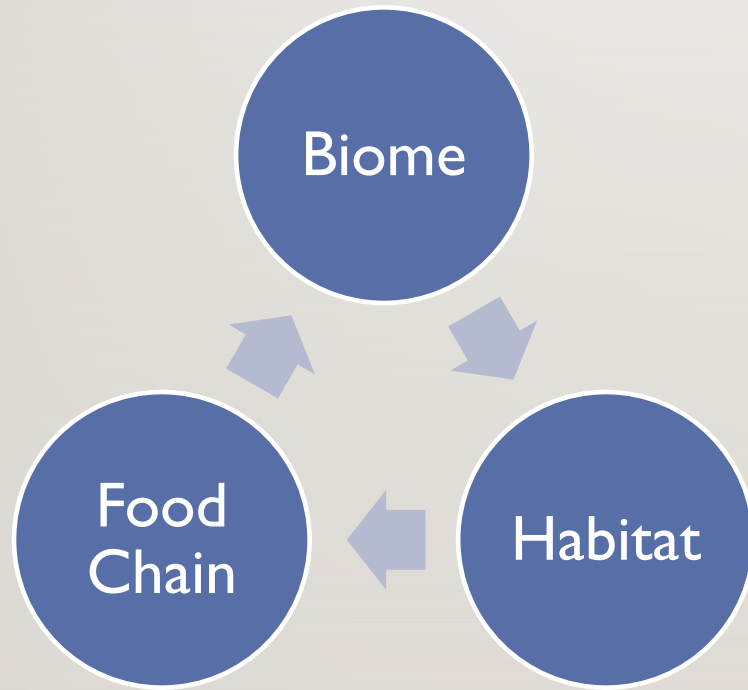
THIS HONOR IS A  
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**CONSERVATION  
MASTER AWARD**

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- **ENDANGERED  
SPECIES HONOR**
  - **ZOOLOGY  
MASTER AWARD**
  - **CONSERVATION  
MASTER AWARD**



# ENDANGERED SPECIES

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# DEFINE ENDANGERED

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A species which is at risk of becoming extinct because it is either few in numbers or threatened by changing environmental or predation parameters.





# EXTINCT

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- A species that has died out completely. When the last specimen dies, that creature is said to have become extinct.



# HABITAT

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- A specific place or the natural conditions in which a given species lives.



# LAND HABITATS

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- Coniferous Forest
- Tropical Rainforest
- Deciduous Forest
- Mountain
- Savanna

# LAND HABITATS

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- Temperate grassland
- Mediterranean
- Tundra
- Hot Desert
- Polar Ice



# FRESH-WATER HABITATS

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- Marshes
- Streams
- Rivers
- Lakes
- Ponds

# MARINE HABITATS

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- The Coast
- The Intertidal Zone
- Estuaries

# MARINE HABITATS

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- Bays
- The Open Sea
- The Sea Bed
- Deep Water
- Submarine Vents

# BIOME

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- Any major regional biological community such as that of forest or desert.



# FOOD CHAIN

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A food chain describes a single pathway that energy and nutrients may follow in an ecosystem. They usually start with a primary producer and end with a top predator. Here is an example of a food chain:  
phytoplankton → copepod → fish → squid → seal → Orca

This "chain" can be described as follows: Killer whales (Orca) feed upon seals, that feed upon squid, that eat small fish, that feed on copepods, that feed on microscopic algae.



ORCA

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# POACHER

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- A person who illegally hunts an animal in order to kill it.

# WRITE GEN 1:28 IN YOUR OWN WORDS

- NKJV
- Then God blessed them, and God said to them, “Be fruitful and multiply; fill the earth and subdue it; have dominion over the fish of the sea, over the birds of the air, and over every living thing that moves on the earth.”



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## LIST 4 FACTORS THAT HAVE CAUSED ANIMALS TO BECOME ENDANGERED



**Loss Habitat –**



destruction of their natural habitat.



Deforestation



Cut down of Rain forests



Human moving in to develop cities

# INVASIVE SPECIES

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- An invasive species is a non-indigenous species (e.g. plants or animals) that adversely effect the habitats they invade. They can endanger indigenous populations by preying on them or by out-competing them for resources such as food.

# EXAMPLE INVASIVE SPECIES

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- Goldfish







# GOLDFISH

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# POACHING

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RHINOCEROS  
ES ARE KILLED  
FOR THEIR  
HORNS.

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ELEPHANTS  
ARE KILLED  
FOR THEIR  
IVORY.

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WHAT IS THE  
NAME OF THIS  
BIRD?

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THE NAME  
IS DODO  
BIRD

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# DODO BIRD

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- The dodo was an animal hunted to extinction by European hunters. It wasn't long after Dutch colonists settled on the island of Mauritius in the 17th century that the hapless dodo was driven extinct. Since then, dodo researchers haven't had much to work with other than a handful of composite skeletons in museums and anecdotal reports from early mariners. More has been written about this bird than practically any other, yet researchers practically know nothing about it.

# POLLUTION

POLLUTION CAN KILL ANIMALS RAPIDLY.



# POLLUTION

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# POLLUTION

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# POLLUTION

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NAME 4  
ANIMALS THAT  
ARE NOW  
EXTINCT

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ATLANTIC GRAY WHALE, 1750





DODO 1662

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# GREAT AUK, 1844

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# DINOSAURS

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LIST 4 THINGS  
THAT ARE BEING  
DONE TO SAVE  
ENDANGERED  
ANIMALS

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**SAVE  
ANIMALS  
FACING  
EXTINCTION**



# **SAVING ENDANGERED ANIMALS**

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- Endangered  
Species Act for  
the USA.

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# **SAVING ENDANGERED ANIMALS**

Environmental Preservation Laws

Recovery Plans

Control of Invasive Species

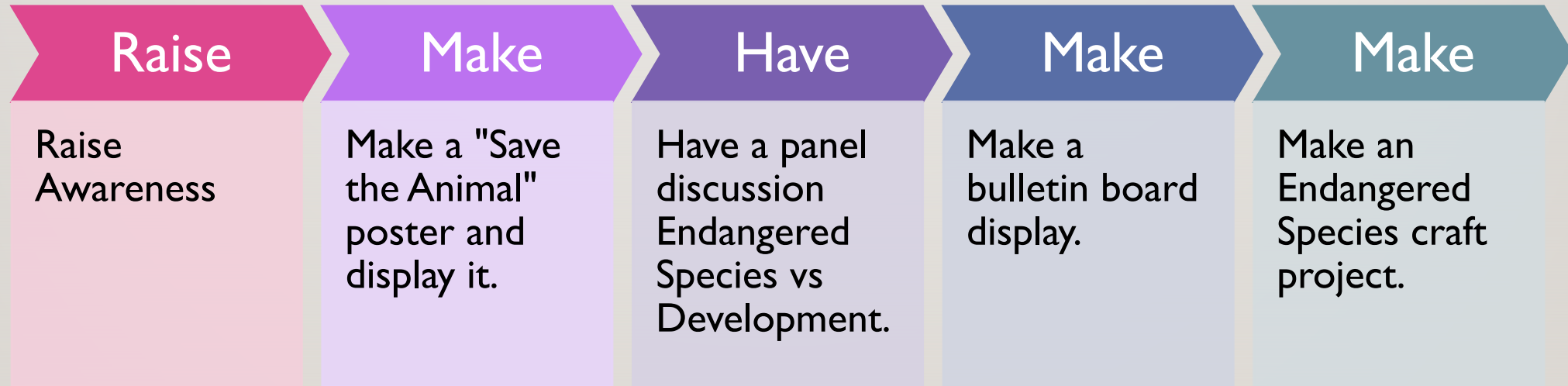
Breeding programs in zoos

Reintroduction of species to an area



# LIST 4 ACTIVITIES YOU CAN DO TO HELP WILD ANIMALS

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# SUSTAINABLE USE OF RESOURCES

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1. Do not purchase items made from endangered animals such as ivory.

2. Reduce consumption levels – puts stress on the environment. Buy reusable items.

## 3 BOAT INSPECTIONS

- If you own a boat or a personal watercraft, it is important to inspect it before you transport it between different waterways.



# HAWAII

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# HAWAII

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# 4 EXOTIC ANIMALS

DO NOT BUY OR KEEP EXOTIC ANIMALS.

# 5 HABITAT RESTORATION

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01

Hold an Arbor Day tree-planting party.

02

Restore a riverbank by replanting native species and picking up litter.

03

Plant a garden at your school, church, or home to attract wild birds and butterflies.



# LIST 10 ENDANGERED ANIMALS

## TELL WHERE THEY LIVE AND WHY THEY ARE ENDANGERED

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AFRICAN  
ELEPHANT –  
AFRICA



ASIAN ELEPHANT  
– SOUTHERN ASIA



BLACK  
RHINOCEROS –  
AFRICA



BIGHORN SHEEP –  
WESTERN US &  
CANADA



BLUE WHALE –  
OCEANS  
WORLDWIDE

# LIST 10 ENDANGERED ANIMALS

## TELL WHERE THEY LIVE AND WHY THEY ARE ENDANGERED

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Chimpanzee –  
Africa

Black-footed  
Ferret – North  
America

Giant Panda –  
China

Gorilla - Africa

Humpback  
Whale – Oceans  
Worldwide

# CHIMPANZEE AFRICA

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# GIANT PANDA CHINA

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# HUMPBACK WHALE OCEANS WORLDWIDE

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ENDANGERED ANIMALS  
CONTINUES  
SNOW LEOPARD –  
CENTRAL & SOUTH  
ASIA

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# ENDANGERED ANIMALS CONTINUES

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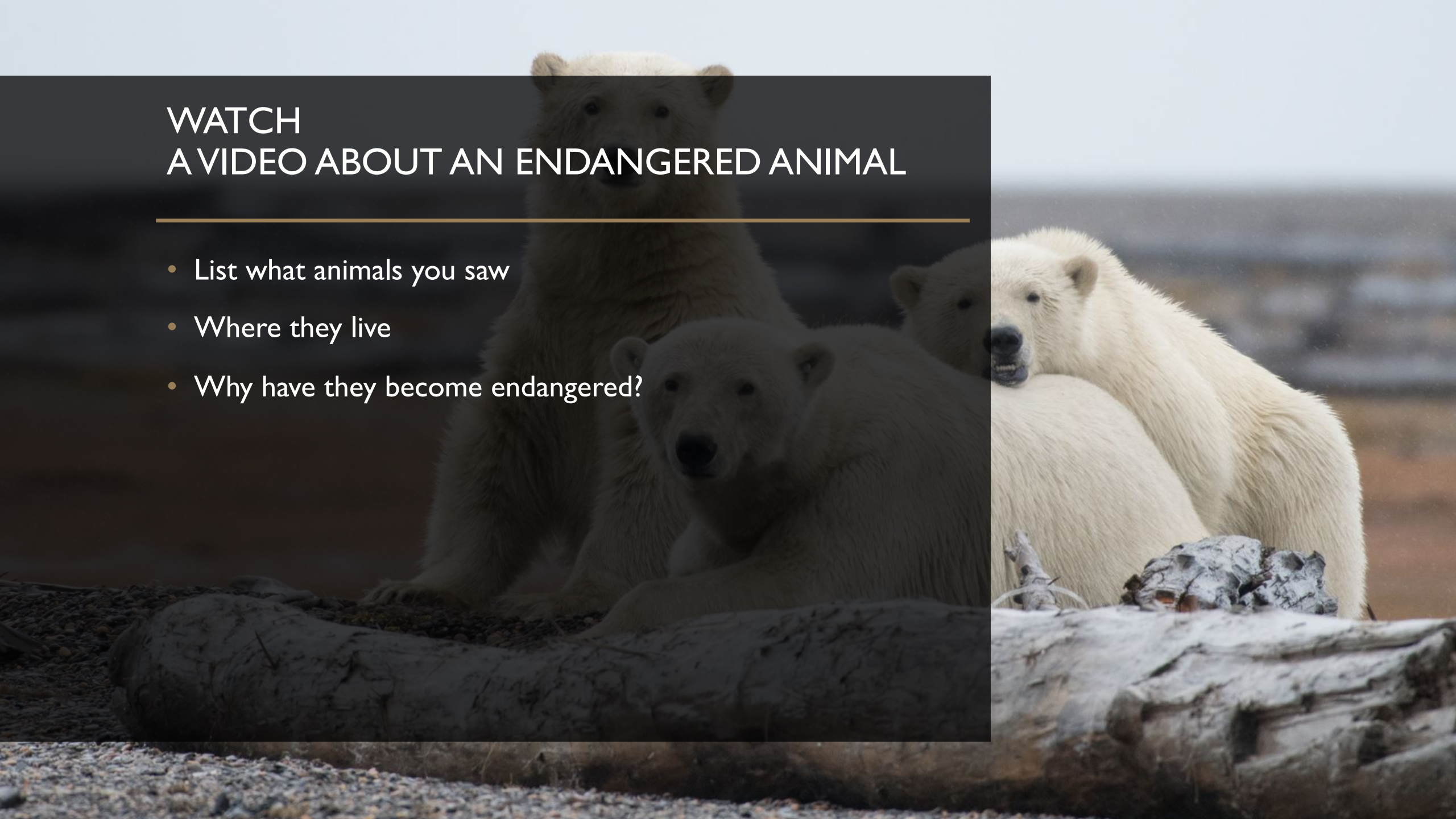
- Tiger
- Eastern & Southern Asia



# WATCH A VIDEO ABOUT AN ENDANGERED ANIMAL

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- List what animals you saw
- Where they live
- Why have they become endangered?







We would like to thank  
Instructor **Wilner Byas** for an excellent honor presentation!  
It would be impossible for us to continue our operation  
without volunteers like you. May God bless you!

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