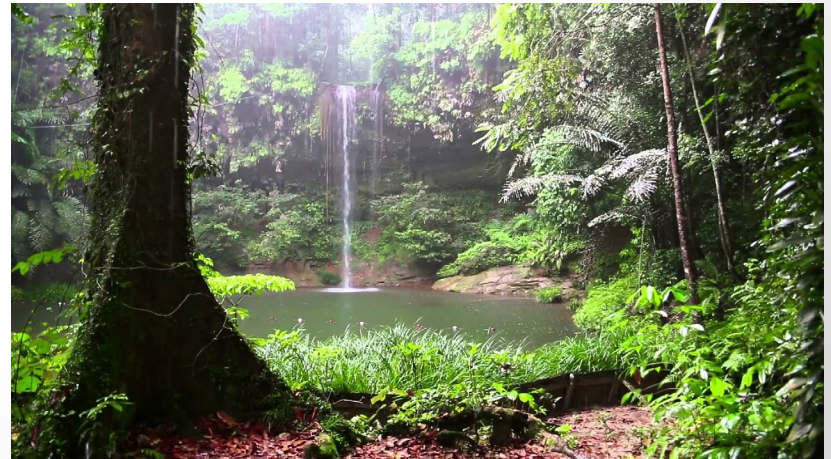


Conservation

- We need to protect our planet & the organisms on it, not just for ourselves but for future generations.
- Conservation is the protection and preservation of ecosystems all over the world, both land & water.
- Conservation involves:
 - limiting human-caused damage to ecosystems
 - restoring damaged ecosystems
 - preserving vulnerable species



Climate Change

- Climate is the weather; the temperature, wind, rain
- Many places that were warmer are now getting colder, and many colder regions are getting much colder or even warmer (known as Global Warming).
- The Earth's temperature has risen and the amount of rain each year has also risen
- <https://www.youtube.com/watch?v=Sv7OHfpIRfU>

- Global Warming causes ice sheets to melt, meaning there is nowhere for those animals to live
- All this extra water then causes floods in other areas



- The acidity of the oceans is increasing. This is a result of more carbon dioxide emitted and being absorbed by the oceans.
- Some animals, particularly corals, can't survive this so entire coral reefs and all animals that live there will die out

What can we do?

- Use a bus instead of a car, more people fit on a bus!
- Walk or cycle instead of using a vehicle at all
- Plant trees & plants and protect them
- Don't leave lights or tv on, chargers plugged in if you're not using them.

Deforestation

- Deforestation is the conversion of forested areas to non-forest land for use such as arable land, pasture, urban use, logged area, or wasteland.



- Forests cover 30% of the Earth's surface
- Tropical rainforests which cover 6-7% of the earth's surface, contain over half of all the plant and animal species in the world!
- It is estimated that there will be no rainforests left within 100 years
- The rate of deforestation equals to loss of 20 football fields every minute
- There are more than 121 natural remedies in the rain forest which can be used as medicines
- 20% of the world's oxygen is produced in the Amazon forest



Plastic Rubbish

- We are now producing nearly 300 million tons of plastic every year
- 50% of plastic is used just once and then thrown away.

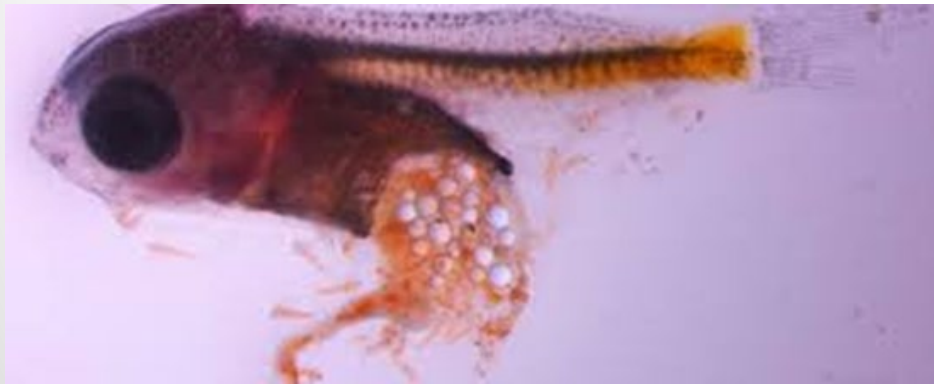


- More than 8 million tons of plastic is dumped into our oceans every year.
- Nearly everything we buy has plastic packaging

- Many turtles and whales think plastic bags are jellyfish and eat them by mistake.
- If they eat too many, their tummy gets clogged up and they die



- Smaller plastics like bottle caps & microplastics are also eaten by fish & other animals, mistaking them for food
- If we eat fish that have eaten microplastic, we may get sick ourselves

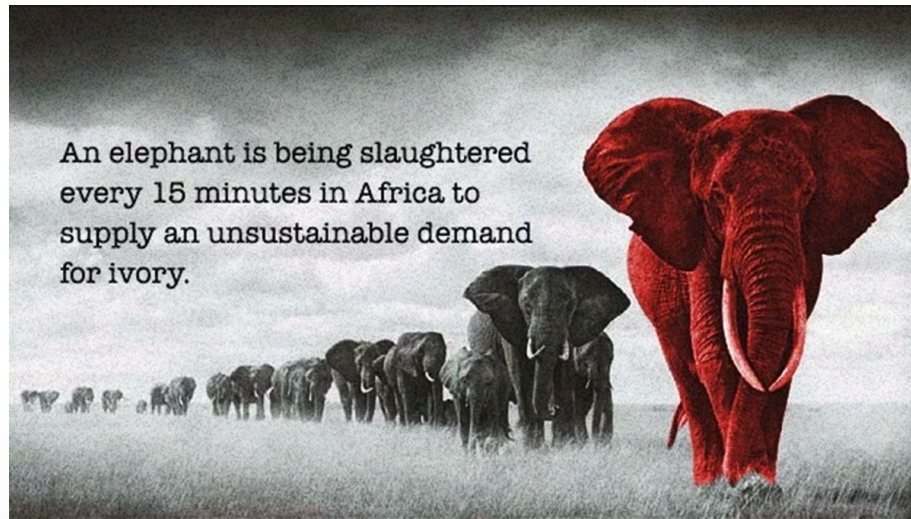


What can we do?

- **Reduce, Reuse and Recycle**
- **Reduce** the amount of plastic we buy eg: buy veg that is loose & not in plastic bag
- **Reuse** the plastics we have. Instead of buying water bottle every day, buy a reusable one. Instead of using lots of plastic bags, buy big reusable ones.
- Try not to use “one-time use” plastics like straws, plastic forks, plastic bottles
- **Recycle** any plastic that we do use/buy. Nearly all plastic is recyclable now. If we recycle instead of putting in normal rubbish then it won't go into ocean

Poaching

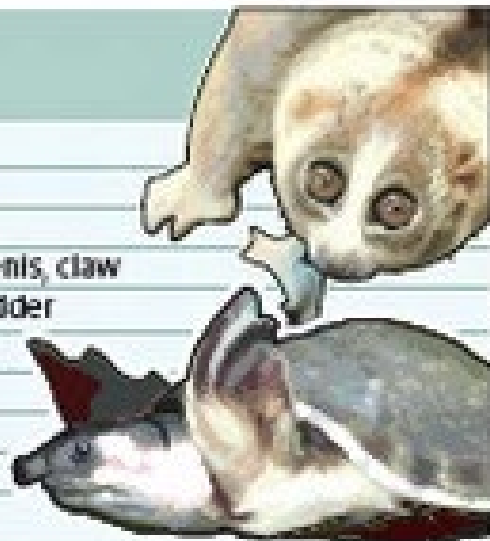
- Poaching is the illegal hunting or capturing of wild animals
- Main animals that we think of are rhinos and elephants but there are many more



- Generally killed for the Asian “medical” market –
• **no scientific evidence at all.**

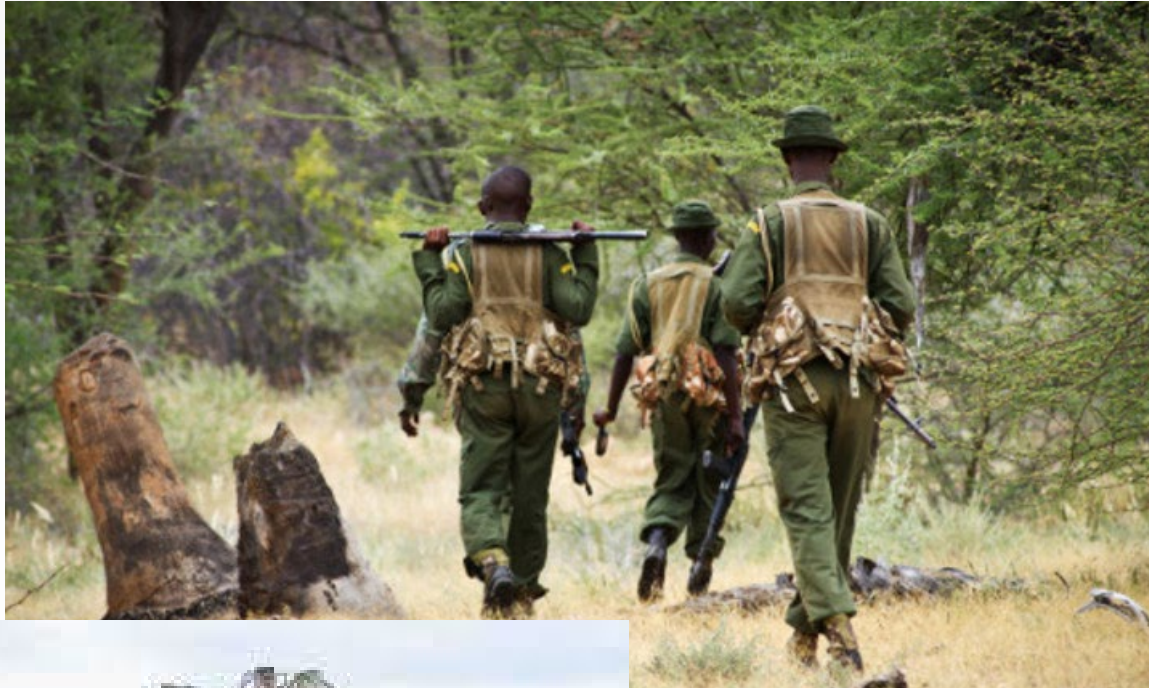
SPECIES THREATENED BY TRADE

<i>Top 10 most frequently smuggled wildlife (In no particular order)</i>	<i>Forms</i>
1. Pangolin	Live, meat and scales
2. Rare tortoises and freshwater turtles	Live as pet and meat
3. Snakes and lizards	Live, meat and skin
4. Tiger	Meat, pelt, whiskers, penis, claw
5. Sun bear	Meat, paw and gall bladder
6. Loris, orangutan and monkeys	Live as pet and meat
7. Leopard and panther	Meat and pelt
8. Lory, cockatoo, various songbirds	Live as pet
9. Elephant tusk	Ivory (raw and carved)
10. Marine turtle	Meat and egg



Based on media reports of enforcement cases in Malaysia.

Local Heroes!



- <https://www.youtube.com/watch?v=CWhyGI7q8Xk>

Remember....

If we all make **small** changes, it will add up to have a **big** impact

We can make a difference but we need to start soon, before it's too late

Task 1

- Pick one of the conservation topics that you find most interesting
- Make an awareness poster that you could put up in school to help educate people about the problem and give them some ideas on how they can help.

Task 2

- Based on the 8 weeks of zoology we've done, your task is to design your own animal
- Think about what animal group is it? An invertebrate or a vertebrate (bird, mammal, fish, amphibian, reptile)?
- What does it eat, what might eat it, where does it lives, what conservation problems it might encounter in that habitat?