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# CELEBRATING WORLD ENVIRONMENT DAY & THE AIR WE BREATHE

ADD NAME AND SURNAME

ADD TITLE

Date: XXX

For: Add group/forum/meeting/venue name

# Introduction



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# Who are we?



CapeNature is the part of government that protects natural occurring plant and animal life (biodiversity) in the Western Cape.



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# What are we going to do today?

- Learn about World Environment Day, Air Pollution and Climate Change
- Make a model of the greenhouse effect or race to build a puzzle of it
- Play Climate Change Bingo
- Write a letter to greenhouse gas – Carbon Dioxide

HEART -  
VALUE

HEAD -  
LEARN



HANDS/FEET - DO



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# What are the rules for today?



Listen to the speaker

Respect your teacher and classmates



Have fun!

RULES OF ENGAGEMENT

Be safe



Take part in all the activities!

What else?



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# Tuning in



# What is World Environment Day?



- A special day to celebrate the environment – like a birthday!
- Takes place on 5 June each year around the World
- This years theme is AIR POLLUTION



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# What is Climate Change?



- Long term change in weather patterns
- Can be natural or due to human activity



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# CLIMATE CHANGE (ACCORDING TO A KID)

Activity: listen carefully to the video. Every time you hear a new interesting fact, write it down.



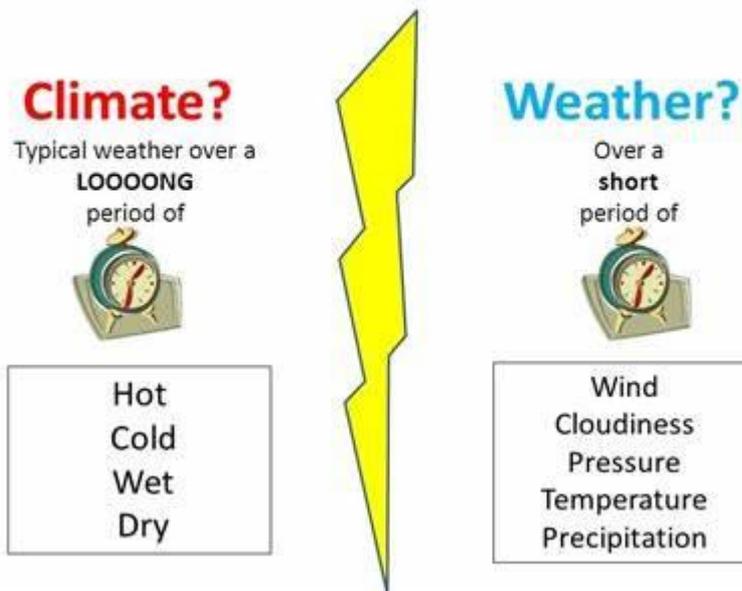
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- Share some of the new interesting facts that you wrote down
- What other information could be added to the movie?
- What is the difference between weather and climate?

## What's the difference?



Quick activity : Just for fun – lets see who can guess how many times the word Climate was used in the video...

# The Green House Effect



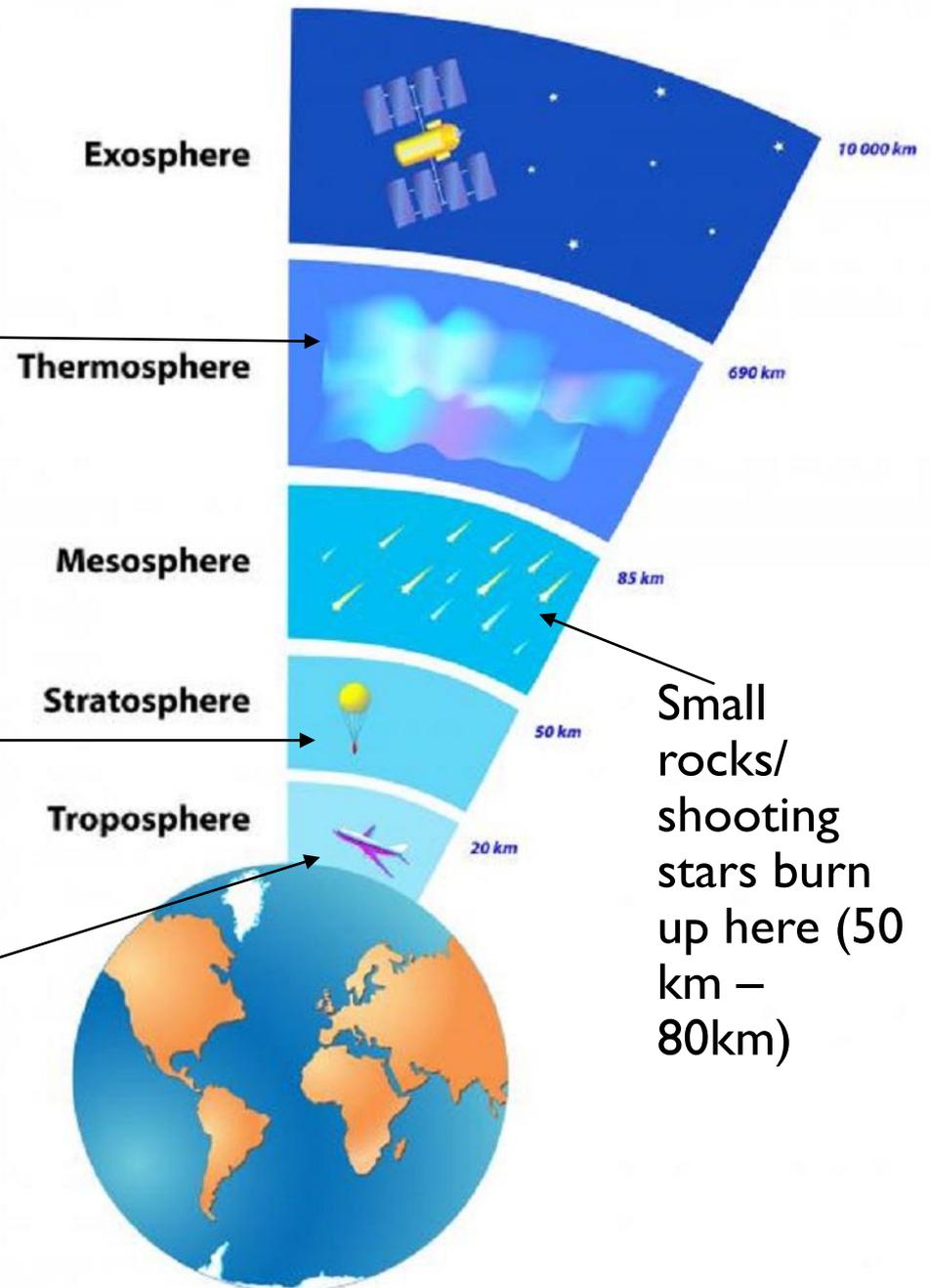
# The atmosphere

- The atmosphere has many different layers

Radio waves are reflected back to earth and it absorbs dangerous X-Rays from the sun as well as Ultra Violet light from here (80km – 350+ km)

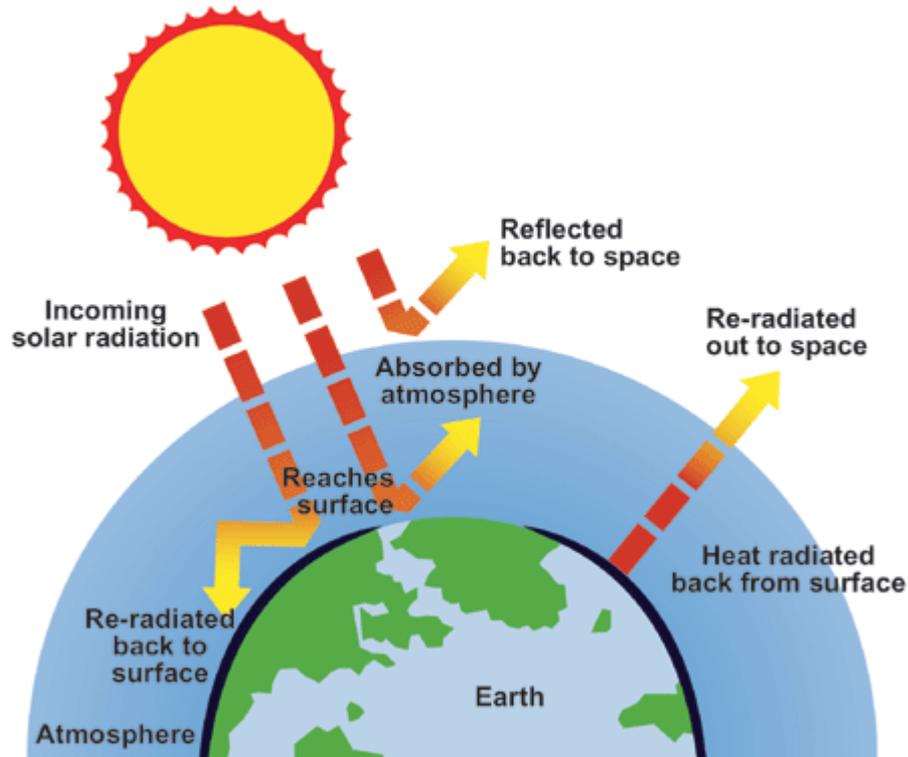
The ozone is found here (it absorbs Ultra Violet light from the sun (10 – 50 km))

Animals and plants live here (sea level to 10km)



# The greenhouse effect

## Global warming and the greenhouse effect



- The greenhouse effect is a natural phenomenon
- Gases trap the UV radiation that then warms the air closest to the surface of the earth
- The greenhouse gases are carbon dioxide, water vapor, methane



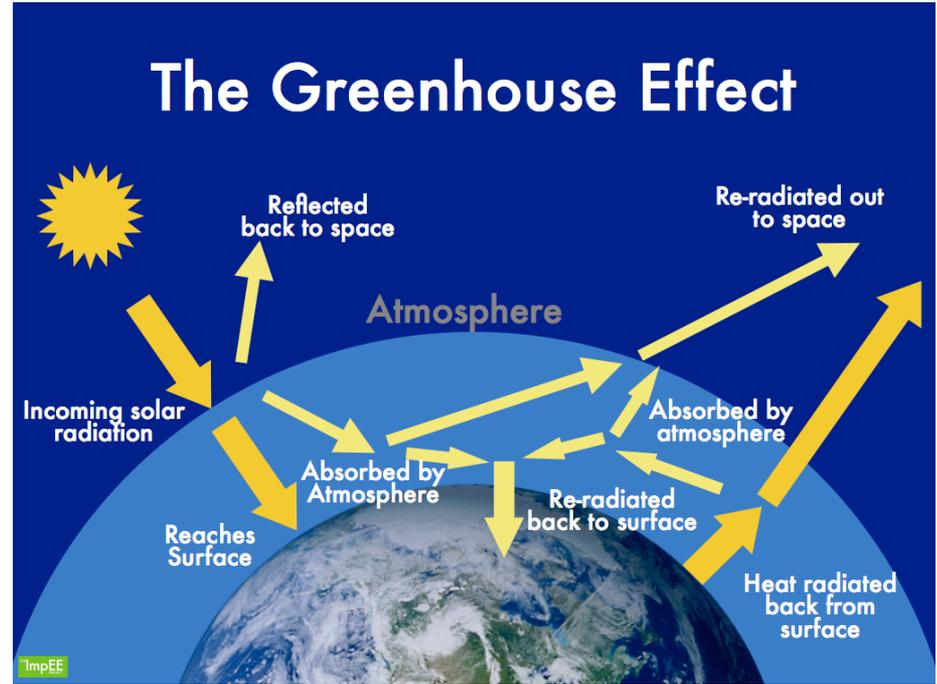
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# Global Warming and Climate Change



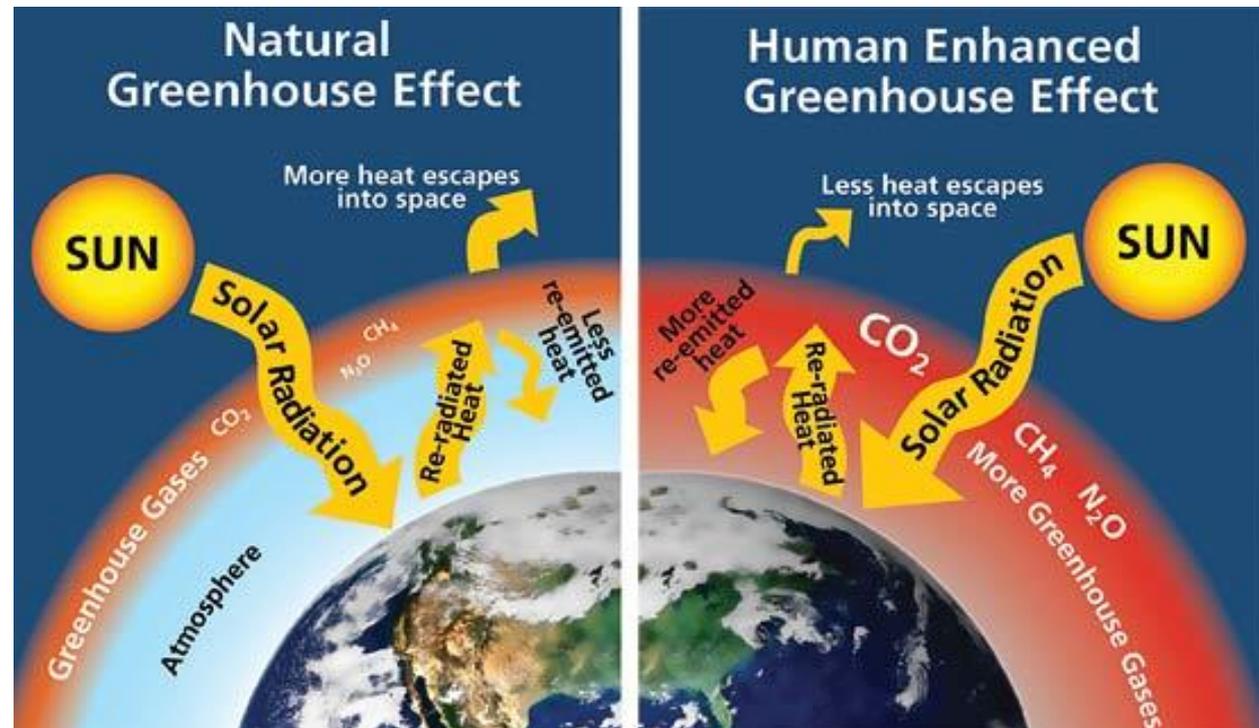
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# What is global warming?

- An increase in greenhouse gases leads to global warming
- Global warming is the increase of the average temperature of the atmosphere



Quick activity: who can spot the differences between the first and second picture?



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# What does global warming mean for us?

- Climate change
- Rising sea levels
- Food shortages
- Mass extinctions



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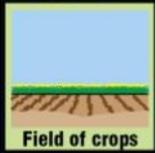
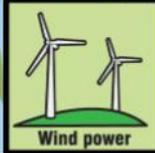
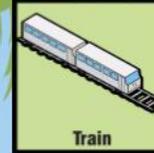
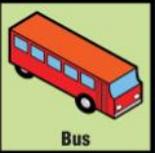
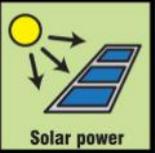
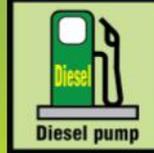
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The search is on! Spice up your next trip on the road by searching for things that are good for the environment or that can help to reduce global warming.

Eco-tip: Put your cards into a clear plastic sleeve and mark it with a dry-erase marker. That way you can use the cards over and over again without using too much paper!

# BINGO!

|  |   |   |   |  |
|--|---|---|---|--|
| <br>Farmers' market | <br>Field of crops | <br>Wind power   | <br>River          | <br>Train            |
| <br>Bus             | <br>Thrift store   | <br>Garden       | <br>Tree nursery   | <br>Yard sale        |
| <br>Solar power     | <br>Pedestrian     | <br>Free         | <br>Coffee mug     | <br>Picking up trash |
| <br>Person raking   | <br>Hybrid car     | <br>Carpool lane | <br>Recycling bins | <br>Bike lane        |
| <br>Electric car  | <br>Car wash     | <br>Farm stand | <br>Diesel pump  | <br>Cyclist        |

Activity: lets find out more about what we can do to prevent climate change – lets play BINGO



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# Consolidation



# Write a letter to green house gas – Carbon Dioxide

Dear Carbon Dioxide

- Today I learned ...
- I am going to help prevent that too many of you stay in the earths atmosphere by.....

(add in one thing you pledge to do to help prevent climate change)



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**THANK YOU.**