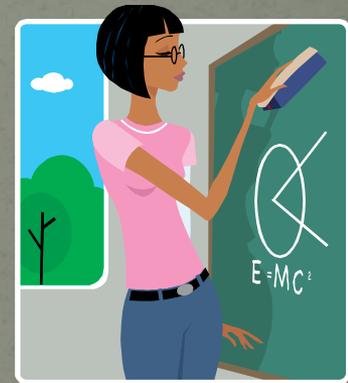
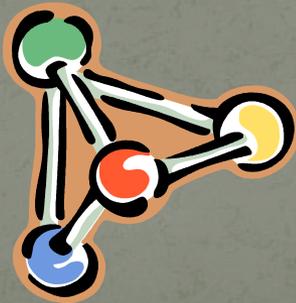
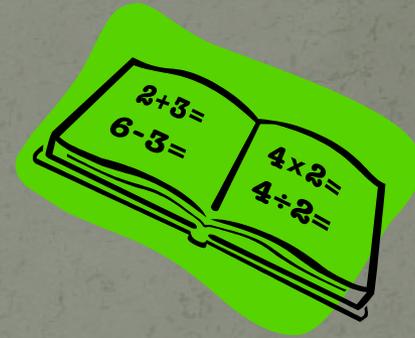


LEARN THE BASICS – *Carbon Budget*

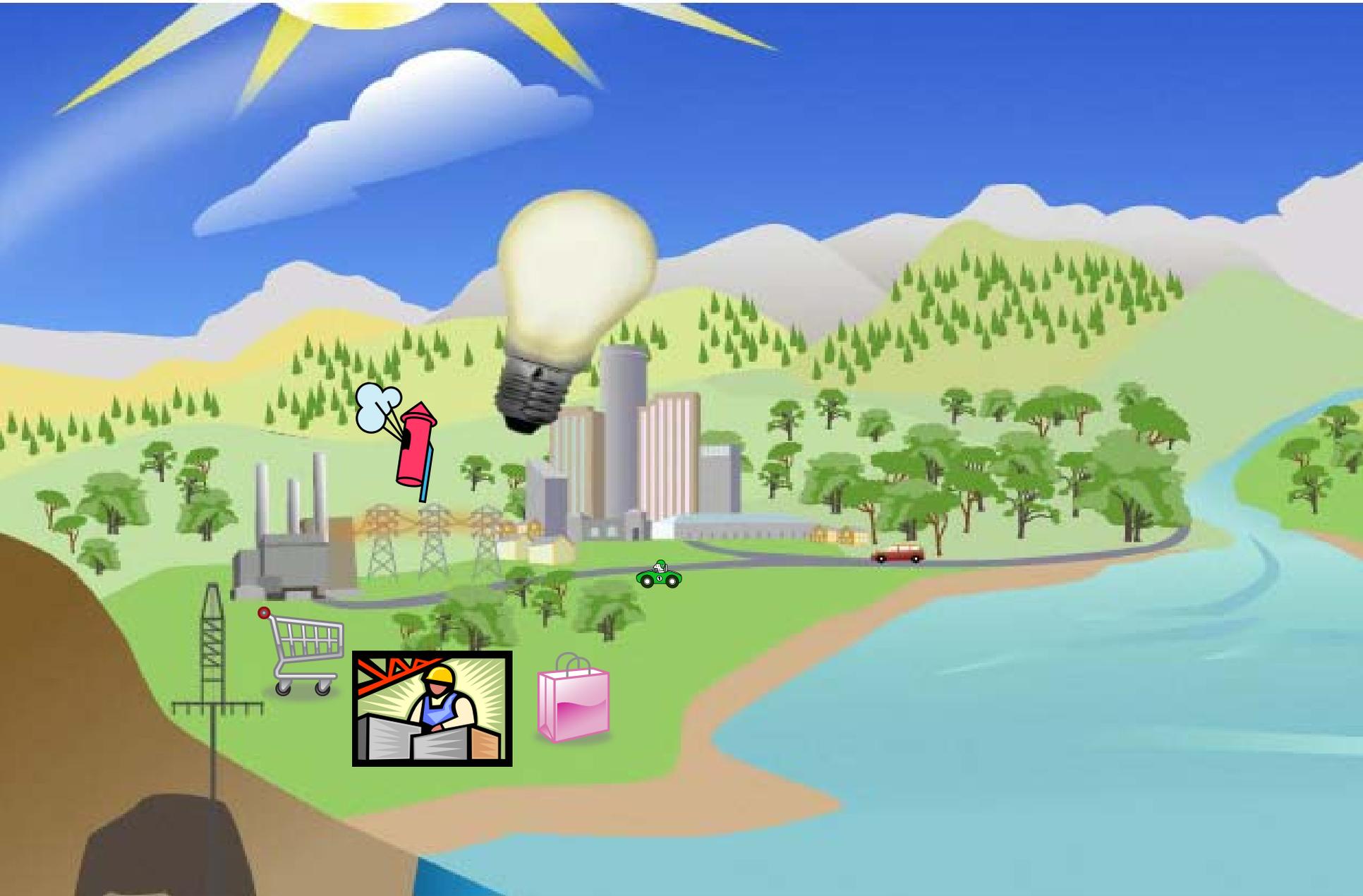




It is all about simple math... additions and subtractions.



Humans are **adding** carbon dioxide (CO_2) gasses to the atmosphere ☹️

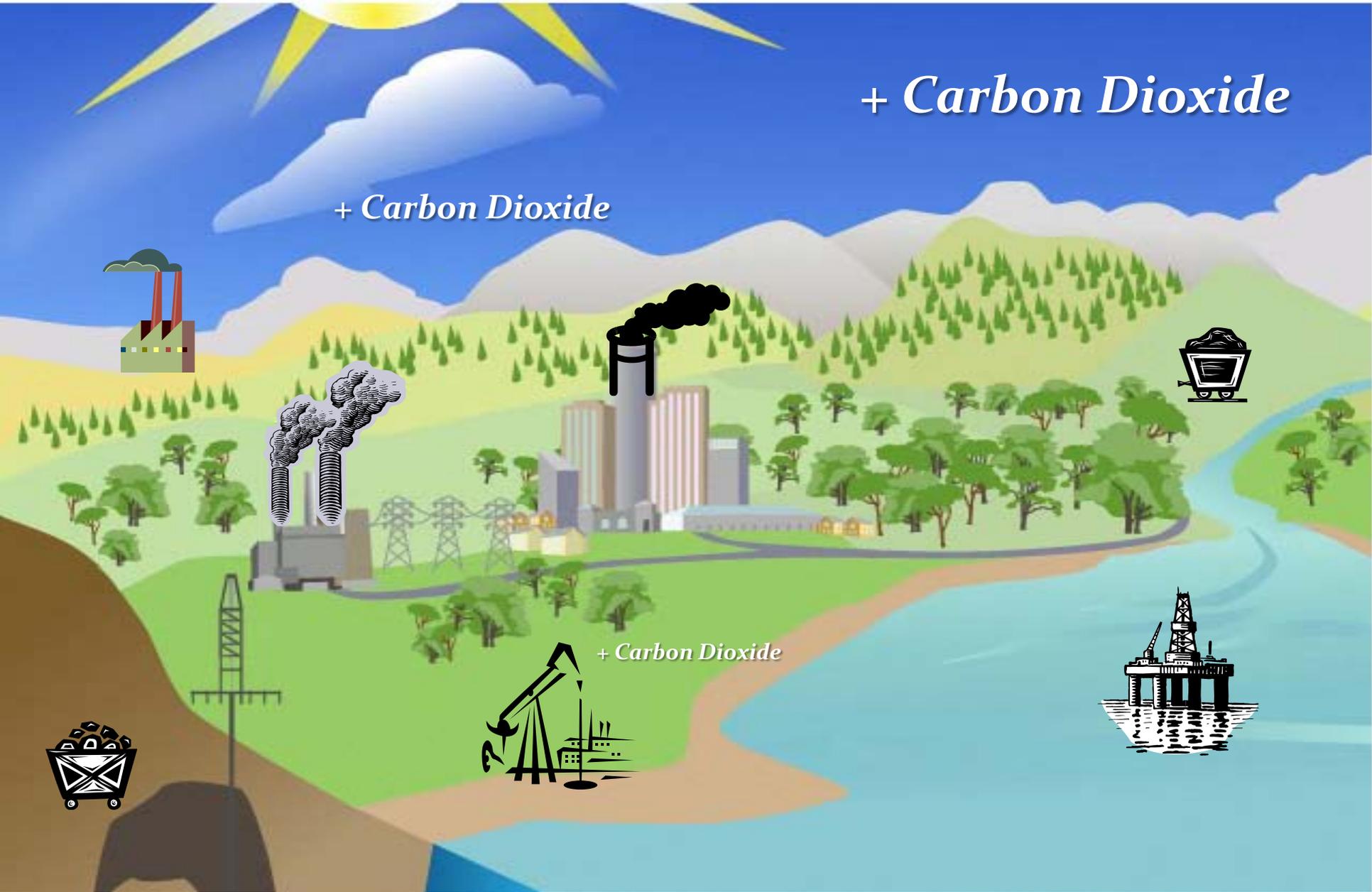


When ever we drive a car, make a product or use electricity, we **use energy**.

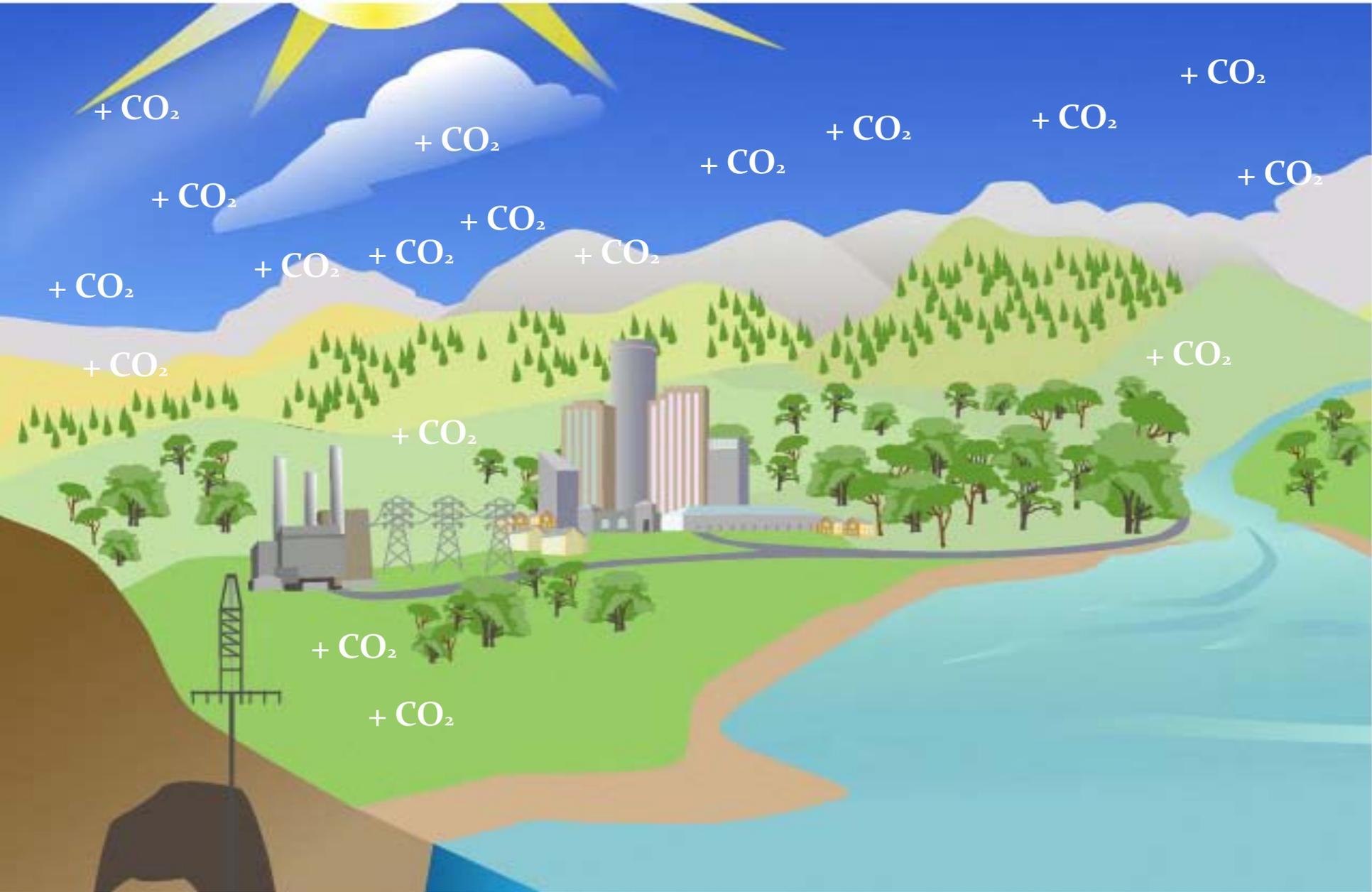
+ Carbon Dioxide

+ Carbon Dioxide

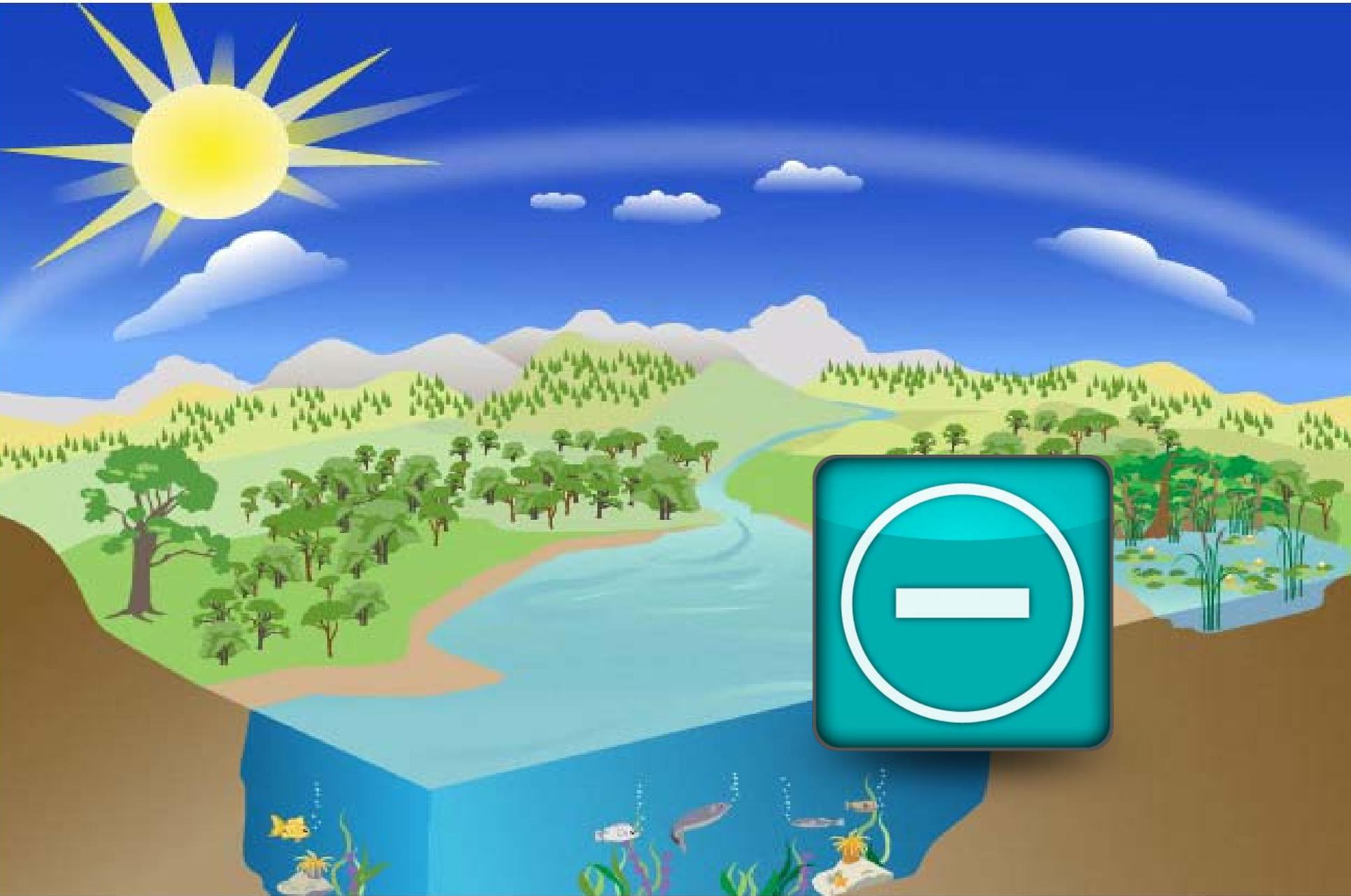
+ Carbon Dioxide



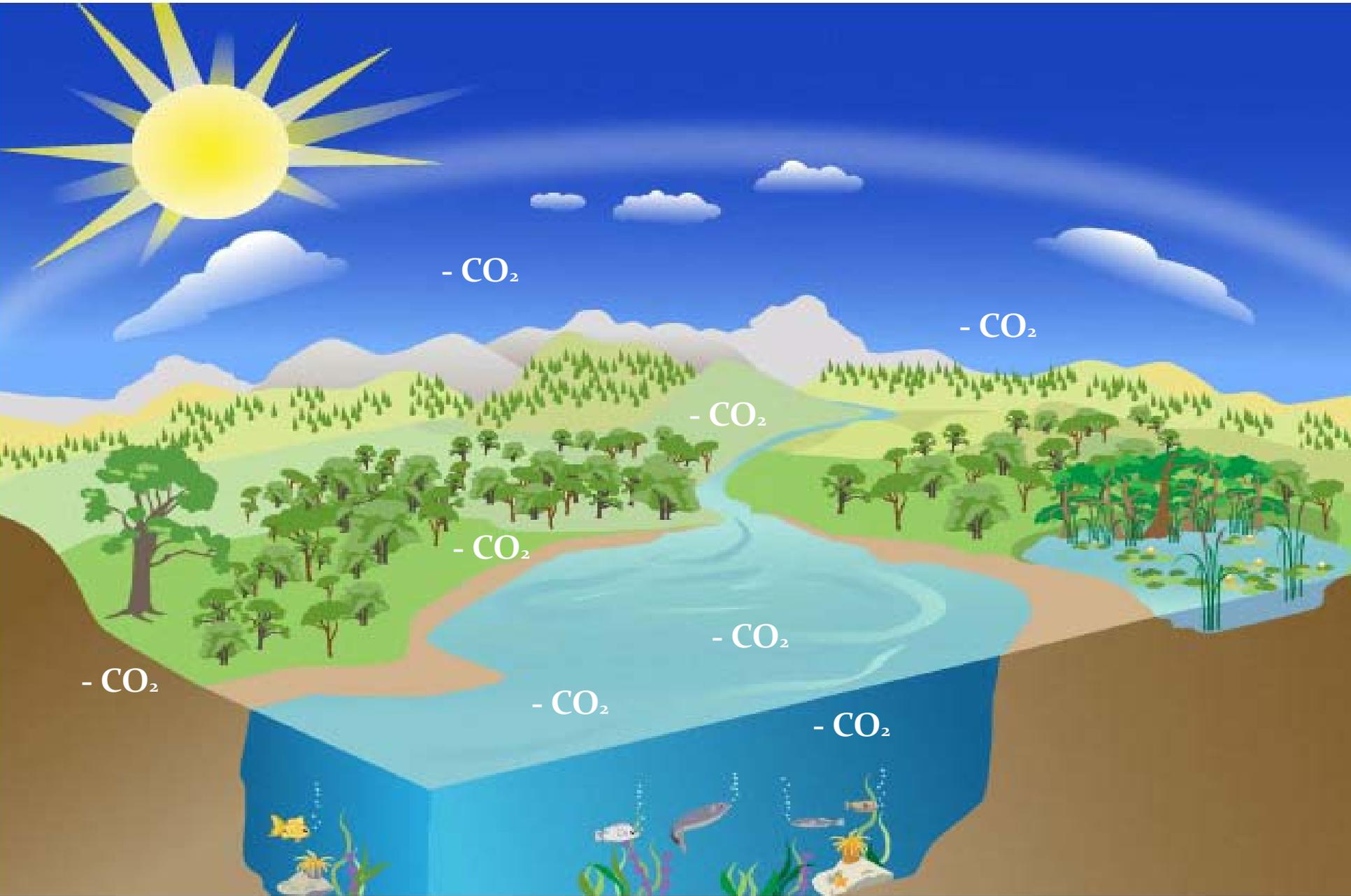
A lot of this energy comes from **burning fossil fuels** like oil and coal – these produce CO₂.



In 2008, human activities and deforestation added 10 BILLION tones of CO₂.
This is a greenhouse gas “source”.



Living vegetation, and natural processes like building skeletons **removes** carbon dioxide (CO₂) gas. ☺



Our planet has a natural way of **subtracting** carbon, this called a “carbon sink”. About 4 **BILLION** tons are removed this way.



What is the 2008 carbon budget for the planet ?



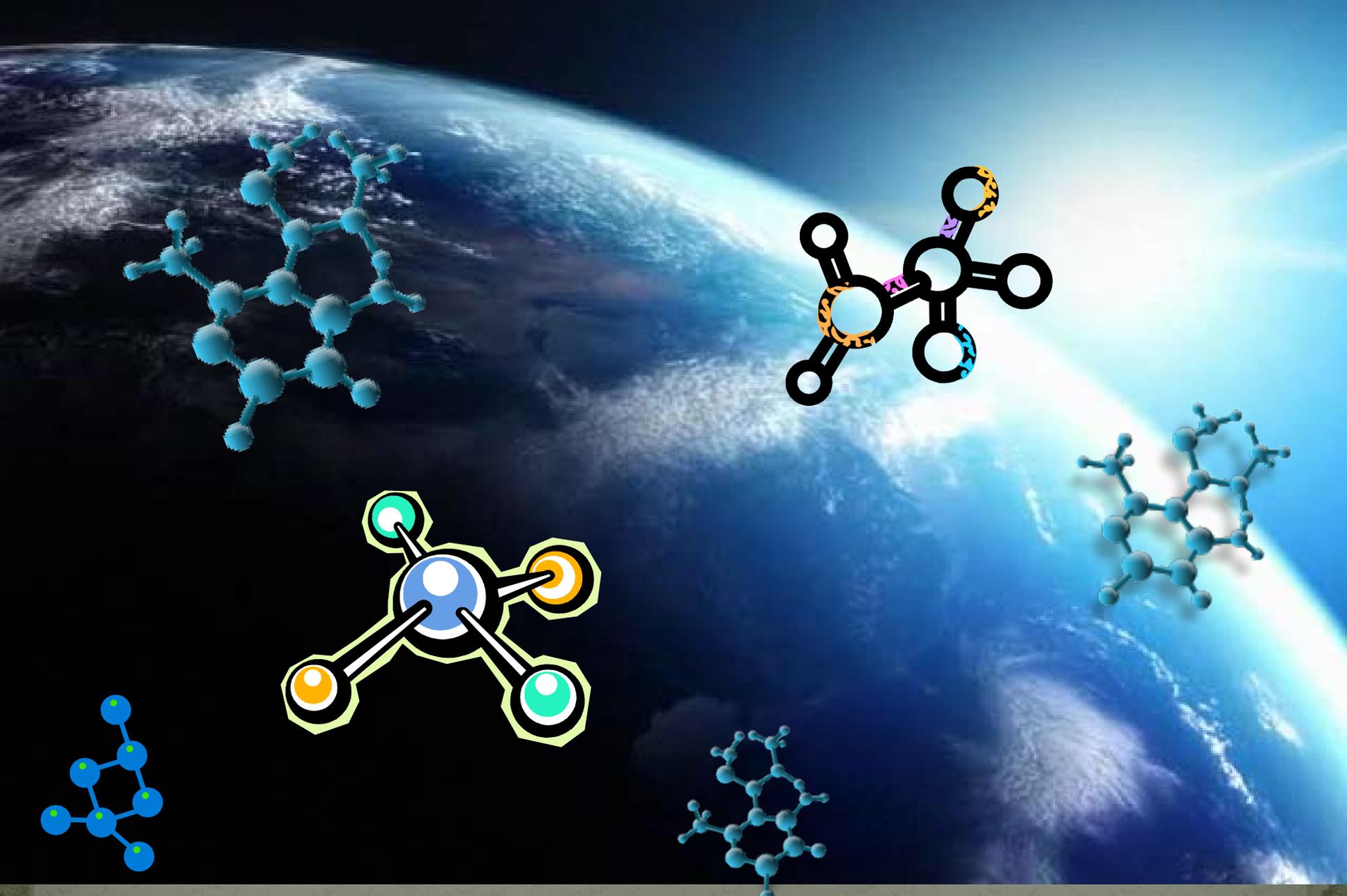
Ten
billion

Six
billion





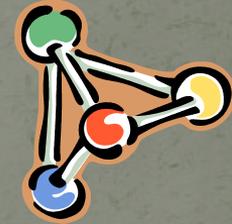
The math is simple – each year more CO₂ is added to the atmosphere, than is removed.



That remaining 4 BILLION tons of carbon dioxide a year builds up in the atmosphere.

Learn the Basics - Carbon Budget

- Produced by Greg Litten – Everglades National Park. July 2012
- Aim: Audience of 5th grade students.



- Most graphics derived from EPA “*Learn the Basics: Greenhouse Effect*” video
- <http://www.epa.gov/climatechange/kids/>
- 2008 Carbon budget information from IPCC report and Dr Patrick Gonzalez.
<http://www.youtube.com/watch?v=S9GRSLORwko>

