

madison
AUDUBON



Climate Initiative

Lesson 3: The Carbon Cycle

Lesson 1: The Scientific Method

The rules of good science:

Because science is **AWESOME!!**



The Scientific Method

The rules of good science:

Because science is **AWESOME!!**

1. Ask a question
2. Make a hypothesis
3. Collect data
4. Make conclusions
5. Share your results



Lesson 2: Phenology

What might cause a shift in phenology?

Climate change



Climate Change: The Big Picture

The entire earth is warming

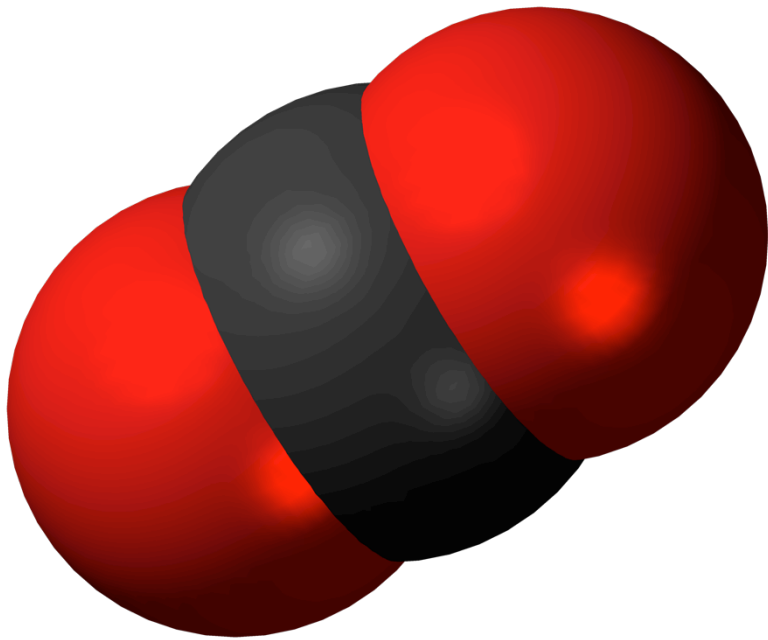
Everything on our earth is connected: a change in one place causes more changes in other places



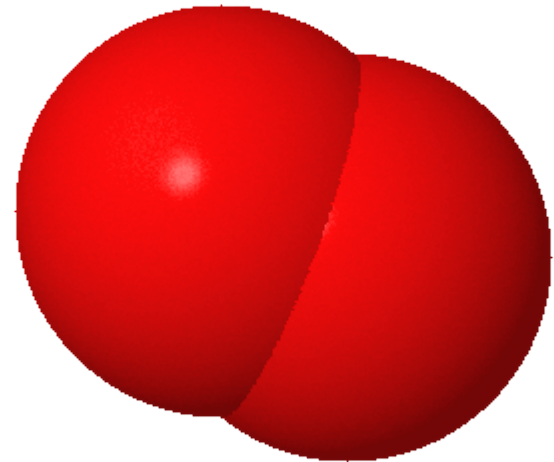
Molecules!

Carbon is the key to EVERYTHING!

Carbon dioxide (CO₂)



Oxygen (O₂)



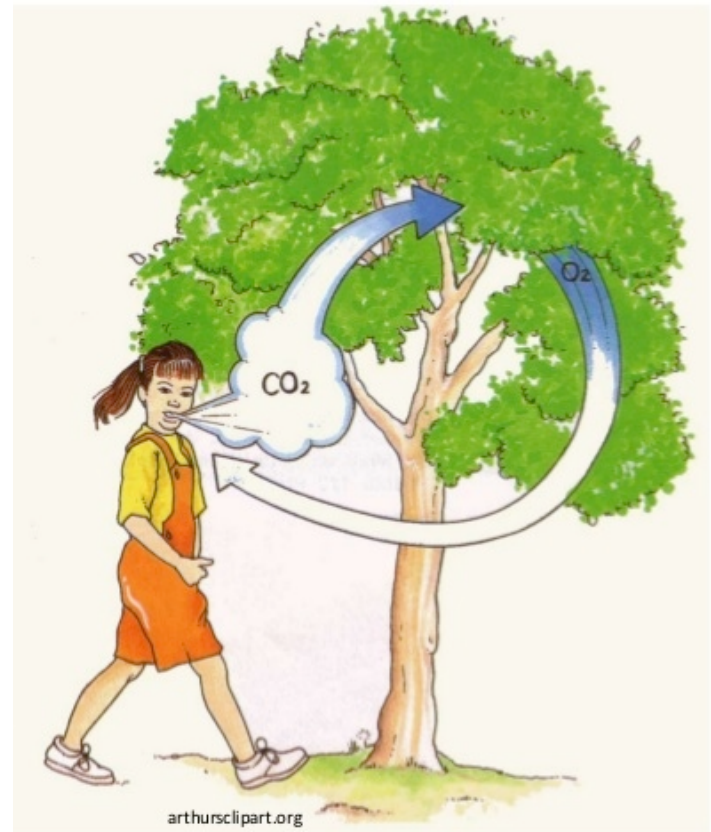
The Carbon Cycle

The air we breathe

Animals:

Oxygen (O_2) **IN**

Carbon Dioxide (CO_2) **OUT**



The Carbon Cycle

The air we breathe

Animals:

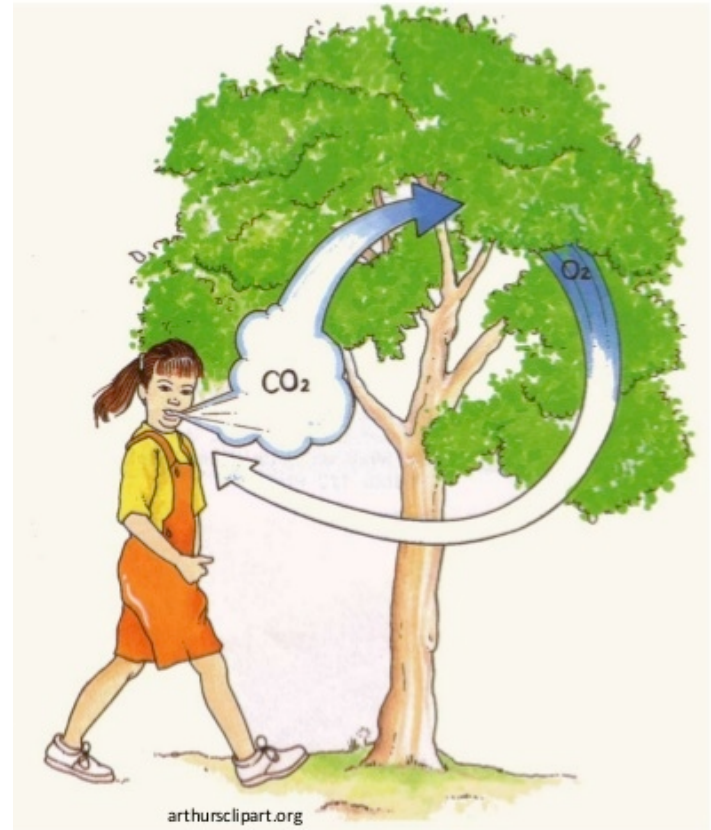
Oxygen (O_2) **IN**

Carbon Dioxide (CO_2) **OUT**

Plants:

Carbon Dioxide (CO_2) **IN**

Oxygen (O_2) **OUT**



The Carbon Cycle

All life is made of Carbon



The Carbon Cycle

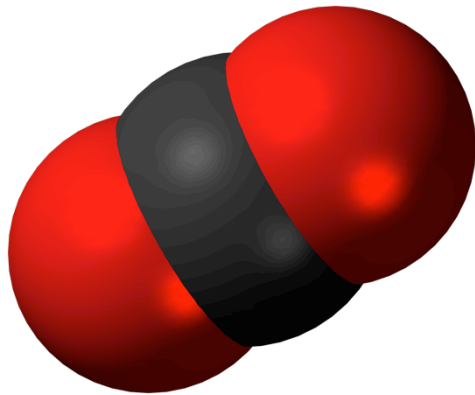
This life decomposes, and
the Carbon returns to the earth.



The Carbon Cycle

Carbon is found in

the air



all life

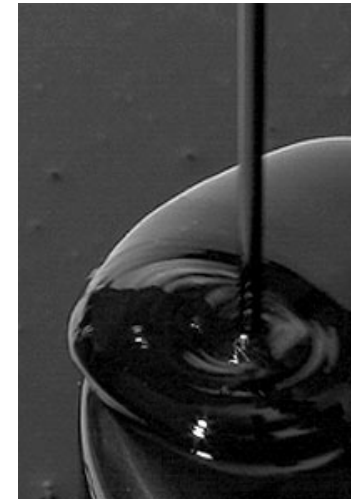
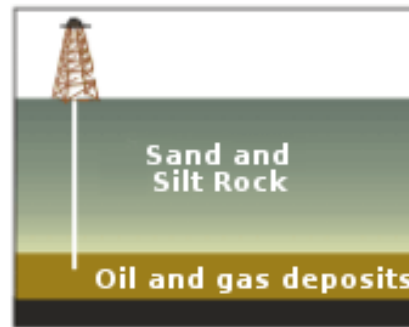
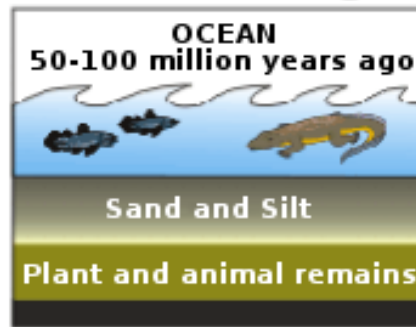
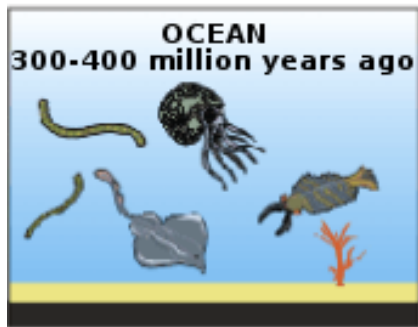


the soil



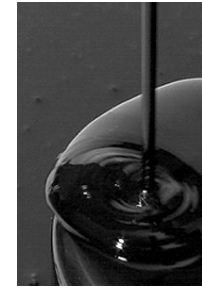
The Carbon Cycle

Coal, gas, and oil are produced-

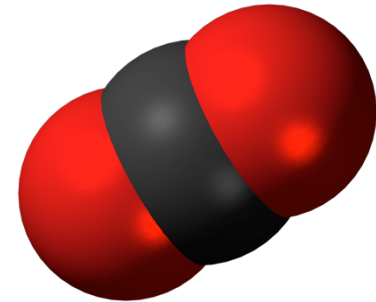


The Carbon Cycle

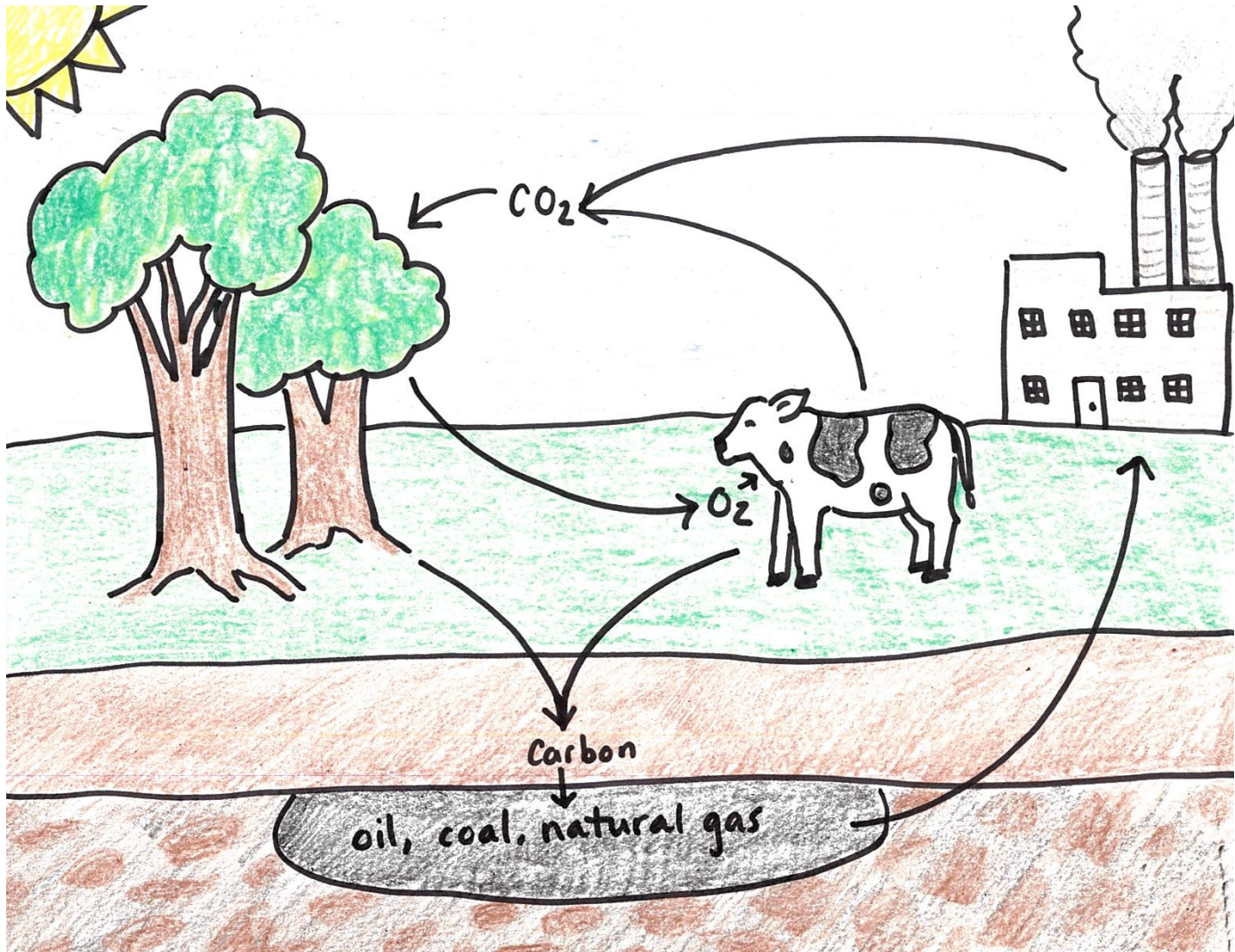
When we burn coal, oil,
and natural gas,



heat, water and
CO₂ are produced



The Carbon Cycle





Carbon Cycle

- Everything is made of Carbon



Carbon Cycle

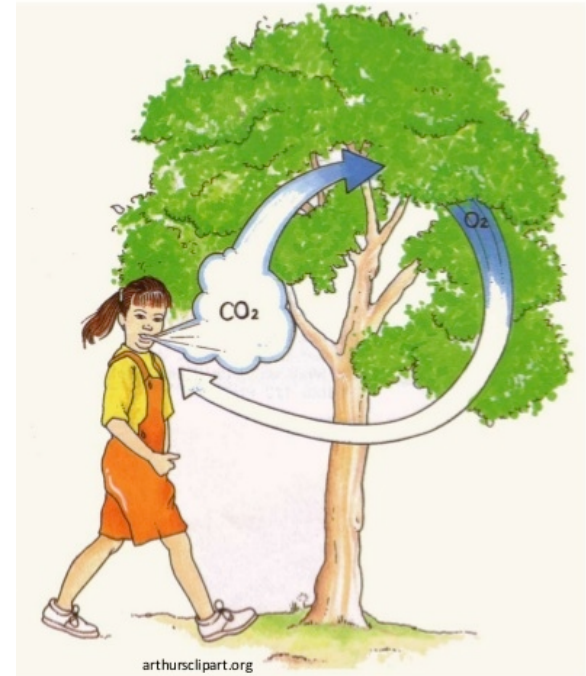
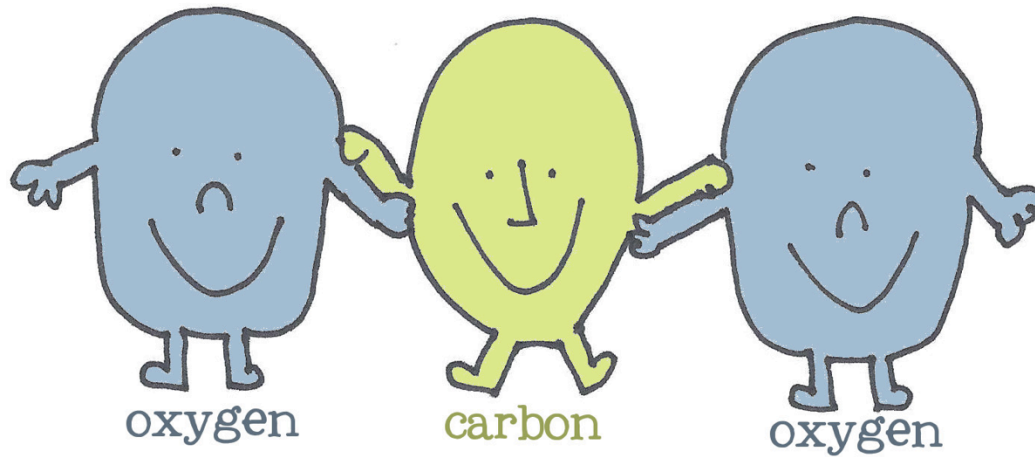
- Everything is made of Carbon
- Everything is connected through Carbon Cycle



Carbon Cycle

- Everything is made of Carbon
- Everything is connected through Carbon Cycle
- Carbon Dioxide is in the earth's atmosphere.

Molecule Game!





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