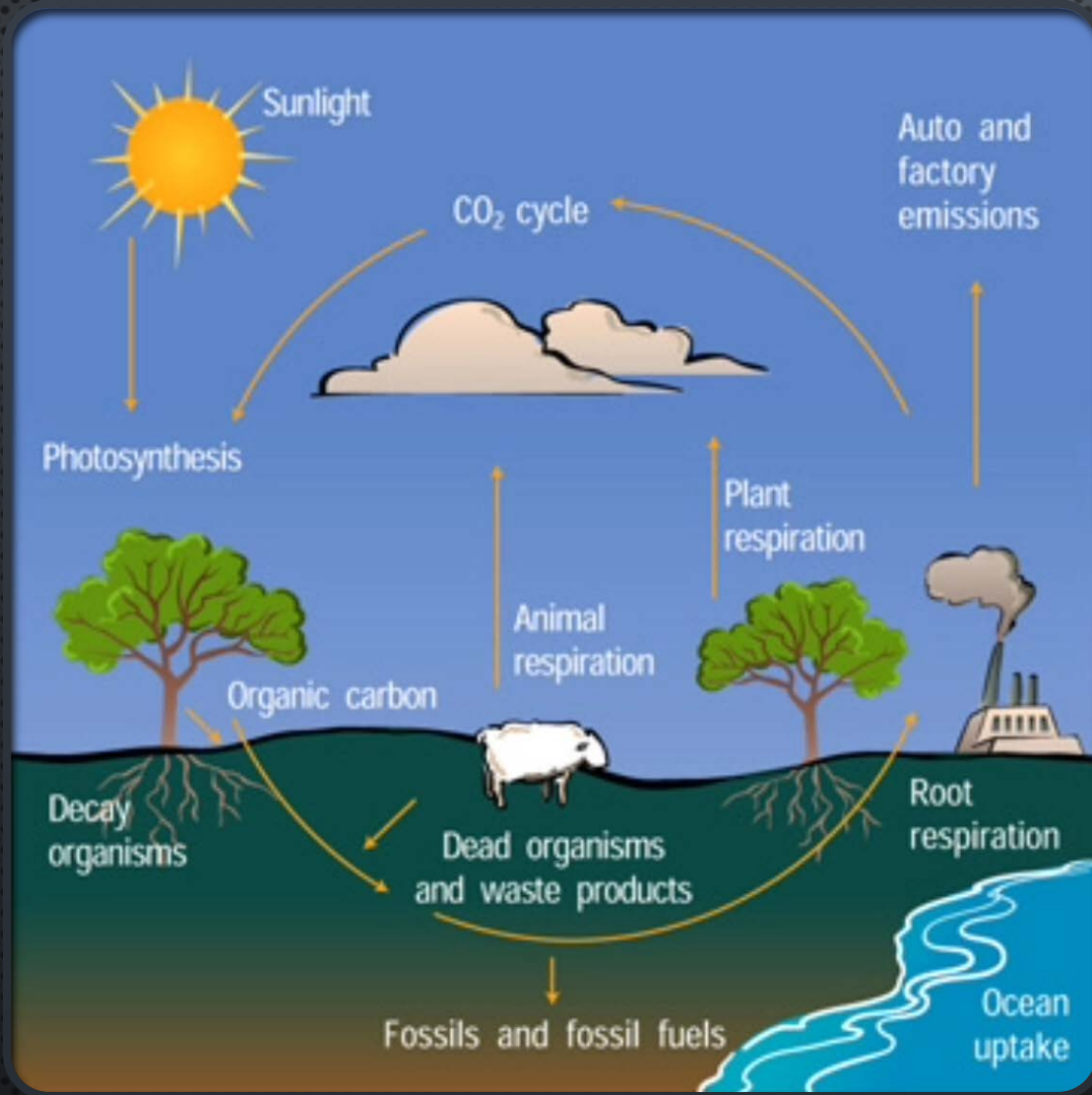


# WHAT IS THE CARBON CYCLE

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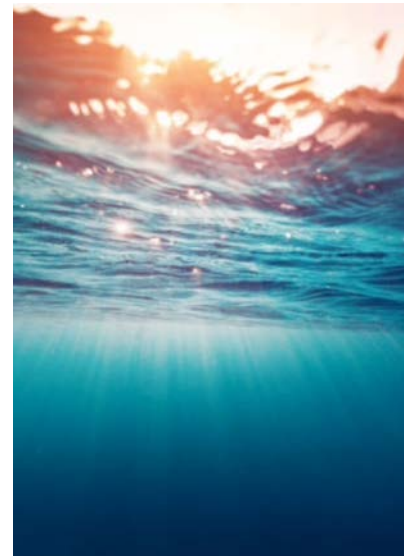


## CARBON CYCLE PROCESS

- THE CARBON CYCLE IS THE PROCESS IN WHICH CARBON TRAVELS FROM THE ATMOSPHERE INTO ORGANISMS AND THE EARTH AND THEN BACK INTO THE ATMOSPHERE. PLANTS TAKE CARBON DIOXIDE FROM THE AIR AND USE IT TO MAKE FOOD. ANIMALS THEN EAT THE FOOD AND CARBON IS STORED IN THEIR BODIES OR RELEASED AS CO<sub>2</sub> THROUGH RESPIRATION.

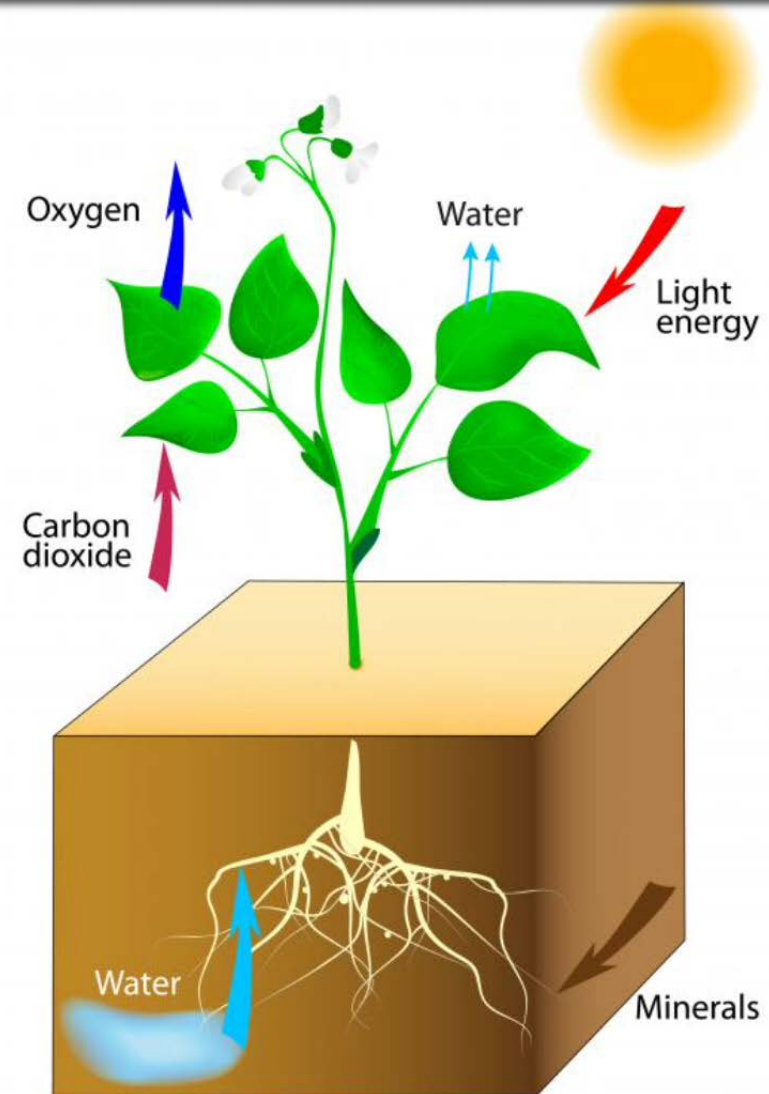
# WHERE IS CARBON FOUND

- CARBON IS FOUND IN THE OCEAN, ATMOSPHERE, ROCK, SEDIMENTS, AND IN ALL LIVING THINGS.



# WHAT MOLECULE DO TREES GET THEIR CARBON FROM?

- TREES GET THEIR CARBON FROM CARBON DIOXIDE.



# WHAT ORGANIC MOLECULE IS CARBON FOUND IN?

GLUCOSE , CARBOHYDRATES , LIPIDS, DNA, AND PROTEIN.

GLUCOSE- A SIMPLE SUGAR WHICH IS AN IMPORTANT ENERGY SOURCE IN LIVING ORGANISMS AND IS A COMPONENT OF MANY .

CARBOHYDRATES- ANY OF A LARGE GROUP OF ORGANIC COMPOUNDS OCCURRING IN FOODS AND LIVING TISSUES AND INCLUDING SUGARS, STARCH, AND CELLULOSE. THEY CONTAIN HYDROGEN AND OXYGEN IN THE SAME RATIO AS WATER AND TYPICALLY CAN BE BROKEN DOWN TO RELEASE ENERGY IN THE ANIMAL BODY.

LIPIDS- ANY OF A CLASS OF ORGANIC COMPOUNDS THAT ARE FATTY ACIDS OR THEIR DERIVATIVES AND ARE INSOLUBLE IN WATER BUT SOLUBLE IN ORGANIC SOLVENTS. THEY INCLUDE MANY NATURAL OILS, WAXES, AND STEROIDS.

DNA- DEOXYRIBONUCLEIC ACID, A SELF-REPLICATING MATERIAL WHICH IS PRESENT IN NEARLY ALL LIVING ORGANISMS AS THE MAIN CONSTITUENT OF CHROMOSOMES. IT IS THE CARRIER OF GENETIC INFORMATION.

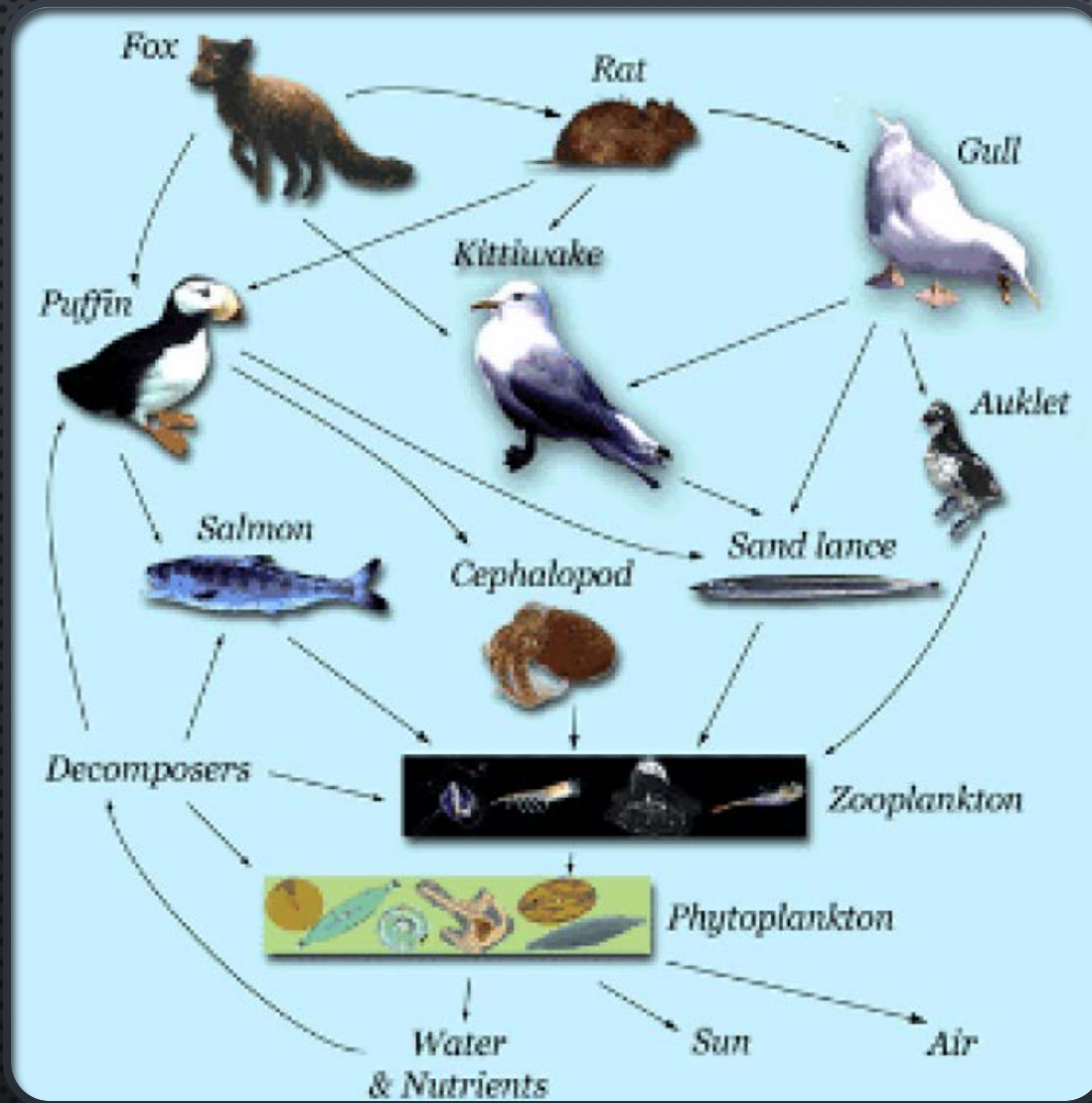
PROTEIN-ANY OF A CLASS OF NITROGENOUS ORGANIC COMPOUNDS THAT CONSIST OF LARGE MOLECULES COMPOSED OF ONE OR MORE LONG CHAINS OF AMINO ACIDS AND ARE AN ESSENTIAL PART OF ALL LIVING ORGANISMS, ESPECIALLY AS STRUCTURAL COMPONENTS OF BODY TISSUES SUCH AS MUSCLE, HAIR, COLLAGEN, ETC., AND AS ENZYMES AND ANTIBODIES.

# HOW DOES CARBON MOVE THROUGH THE CARBON CYCLE?

- THE CARBON CYCLE IS THE PROCESS IN WHICH CARBON MOVES BETWEEN DIFFERENT PARTS OF THE EARTH AND ITS LIVING ORGANISMS. ALSO BECAUSE SINCE CARBON IS LOCATED IN ALL LIVING THINGS THE OCEAN, ATMOSPHERE, ROCKS, AND EVEN SEDIMENTS THEY ARE MOVING IN A SORT OF WAY. SO WHEN THEY MOVE THE CARBON ALSO MOVES INSIDE THEM *CARBON MOVES FROM PLANTS TO ANIMALS*. THROUGH FOOD CHAINS, THE CARBON THAT IS IN PLANTS MOVES TO THE ANIMALS THAT EAT THEM. ANIMALS THAT EAT OTHER ANIMALS GET THE CARBON FROM THEIR FOOD TOO.

# WHY ARE PRODUCERS AND CONSUMERS IMPORTANT TO THE CARBON CYCLE?

- THEY ADD (CONSUMERS) OR REMOVE (PRODUCERS) CARBON DIOXIDE BACK TO/FROM THE ATMOSPHERE BY PERFORMING CELLULAR RESPIRATION (CONSUMERS) OR PHOTOSYNTHESIS (PRODUCERS)

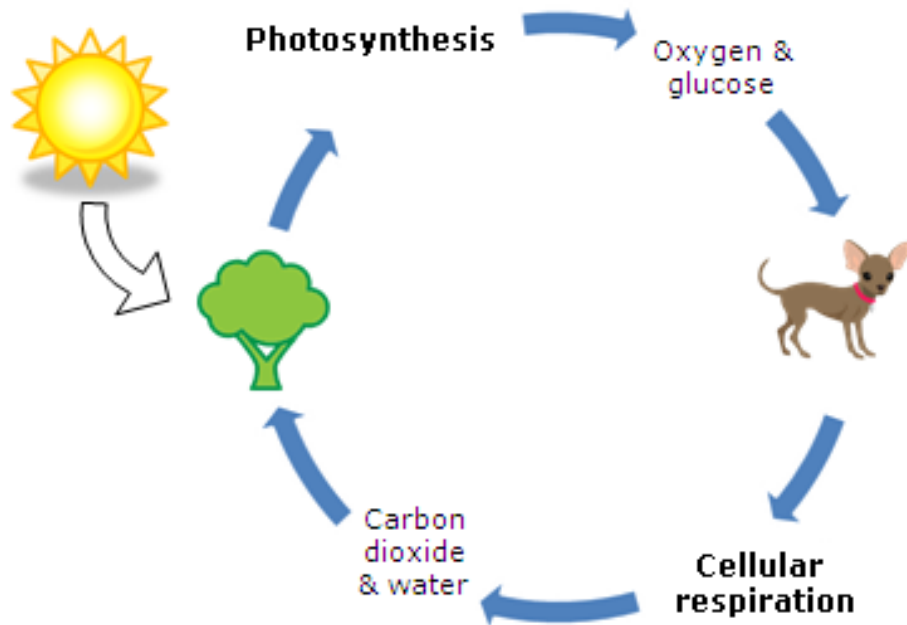




WHERE DOES THE CARBON IN AN ANIMAL OR PLANT GO WHEN THE ORGANISM DIES?

- THE SOIL - AND IS THEN RECYCLED THROUGH DECOMPOSERS





## WHY SHOULD THE AMOUNT OF CARBON IN THE ATMOSPHERE STAY THE SAME?

- THE AMOUNT OF CARBON NEEDS TO STAY THE SAME BECAUSE SINCE THERE ARE HUMANS THERE ARE VARIES AMOUNT OF CARBON EVERYDAY. ALSO CARBON MOVES AROUND A LOT SO THERE IS CARBON EVERYWHERE.

# REFERENCES

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# ASSIGNMENT

KAHOOT: [HTTPS://CREATE.KAHOOT.IT/SHARE/CARBON-CYCLE/B50FAB1E-F85E-42AD-B36C-A02D9C4F01F0](https://create.kahoot.it/share/carbon-cycle/b50fab1e-f85e-42ad-b36c-a02d9c4f01f0)