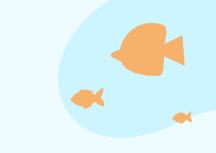
What are some things that get cycled in nature and ecosystems?



Review of Notes

Conservation of Mass

Matter is neither created nor destroyed, it is just changed.

Conservation of Energy

Energy is neither created nor destroyed, it is just transformed from one type to another.

Review of Cycles

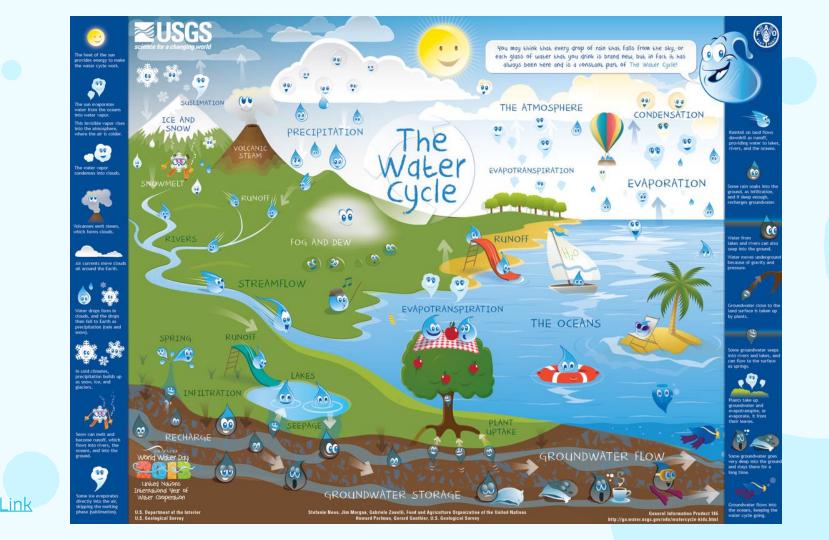
Oxygen Cycle

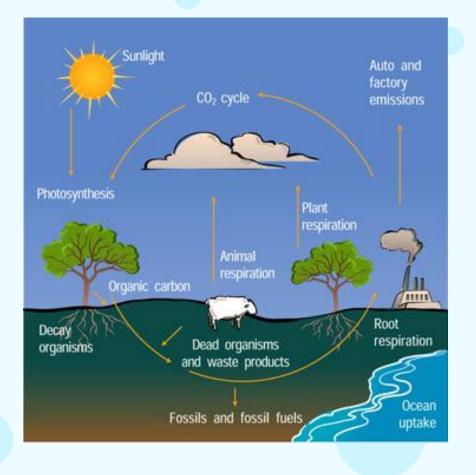
Carbon Cycle

Producers, consumers, and decomposers all exchange carbon through their lives Photosynthesis and water cycle oxygen throughout the ecosystem

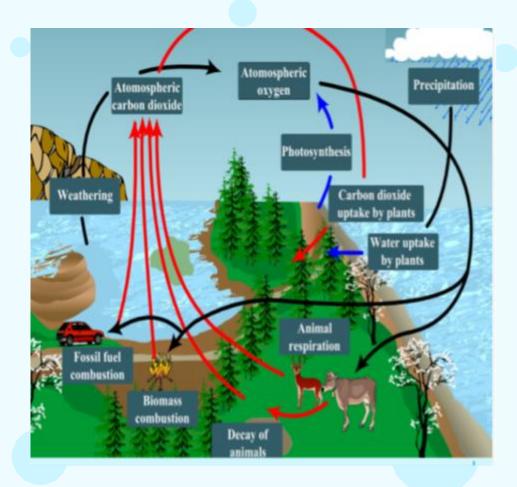
Nitrogen Cycle

The air, soil, and biotic factors move nitrogen through an ecosystem





Carbon Cycle



Oxygen Cycle

Lightning nitrogen in atmosphere Denitrifying bacteria nitrifying algae plant proteins eaten blue green excretion / algae eaten by fish Decaying Nitrogen-fixing Denitrifying Bacteria organic bacteria matter Decaying organic matter Free nitrates, nitrites, and ammonia

Nitrogen Cycle

Review

Water Cycle

Exchange of water molecules through nature

Nitrogen Cycle

Exchange of nitrogen atoms and molecules through nature

Carbon Cycle

Exchange of carbon atoms through nature

Oxygen Cycle Exchange of oxygen atoms through nature

Videos

Here are some videos to help explain the different cycles in nature!

After watching the videos, log into BrainPop through Clever and check out these games for the cycles:

- https://www.brainpop.com/games/nitrogencyclegame/
- https://www.brainpop.com/games/watercyclegame/
- https://www.brainpop.com/games/carboncyclegame/

https://www.youtube.com/watch?v=2D7hZpIYICA https://www.youtube.com/watch?v=NHqEthRCqQ4 https://www.youtube.com/watch?v=pGWJ9GgDNhM In your opinion, which cycle is most important for humans? Why?

Done early

Done early? Check these sites about the different cycles in ecosystems! <u>Carbon Cycle</u>

- https://oceanservice.noaa.gov/facts/carbon-cycle.html
- https://az.pbslearningmedia.org/resource/pcep14.sci.ess.co2cycle/carbon-dioxide-carbon-cycle/
- https://www.sciencelearn.org.nz/image_maps/3-carbon-cycle

Oxygen Cycle

- https://www.ducksters.com/science/ecosystems/oxygen_cycle.php
- https://mocomi.com/the-oxygen-cycle/

Nitrogen Cycle

- https://kids.frontiersin.org/articles/10.3389/frym.2019.00041
- https://az.pbslearningmedia.org/resource/lsps07.sci.life.eco.nitrogen/the-nitrogen-cycle/
- https://www.sciencelearn.org.nz/image_maps/14-the-terrestrial-nitrogen-cycle