

Amoeba Sisters | Video Recap

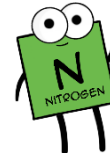
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Amoeba Sisters Video Recap: *Carbon and Nitrogen Cycle*

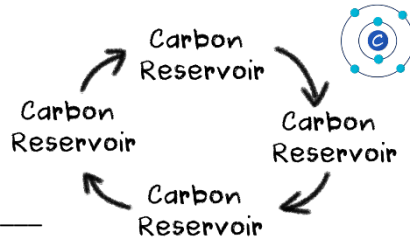
1. **Carbon** is a very important element in biology. What are some of the reasons that organisms need **carbon**?



2. **Nitrogen** is a very important element in biology. What are some of the reasons that organisms need **nitrogen**?



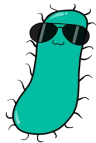
3. The carbon cycle is a cycle among the **carbon reservoirs**. What is a **carbon reservoir** and what are some examples?



4. **Nitrogen** gas is more abundant in our atmosphere than oxygen! However, nitrogen needs to be converted into different forms to be used by many organisms. Bacteria are highly involved in this! Describe the role of (A) **bacteria fixing nitrogen as they live symbiotically with some plant species**, (B) **nitrifying bacteria**, and (C) **denitrifying bacteria** in the nitrogen cycle.







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5. Imagine you are volunteering in a 1st grade classroom. The students recently learned about the water cycle. One student raises her hand and asks, “I heard that elements like carbon can cycle too. How does carbon cycle? Is it like how water cycles?” How would you explain the cycling of carbon to this 1st grade class? Keep in mind that the students have likely not taken an advanced science course yet!



When the Cycles are Disrupted...

6. The flow of matter through the carbon and nitrogen cycle can be disrupted! The video clip explained an example in both the carbon and nitrogen cycle. Pick one of these and describe how this disruption could impact the cycling.



