Nutrient Cycles

**Cycles**

* Matter is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ so the nutrients are continually \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Nutrients are elements needed to make \_\_\_\_\_\_\_\_\_\_\_\_\_, proteins, \_\_\_\_\_\_\_\_\_\_\_, etc.
* The four (4) main nutrients needed for life on Earth are:
	+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Water Cycle

* Water is used in many \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Makes up \_\_\_\_\_\_\_\_\_\_\_\_\_\_ of your body!



**Evaporation**: liquid into gas

**Condensation**: gas into liquid to form \_\_\_\_\_\_\_\_\_\_\_\_

**Precipitation**: \_\_\_\_\_\_\_\_\_\_\_\_

**Run off**: water \_\_\_\_\_\_\_\_\_ downwards

**Accumulation**: water \_\_\_\_\_\_\_\_\_\_\_

**Transpiration**: evaporation off of \_\_\_\_\_\_\_\_\_\_\_\_\_

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Carbon Cycle

* Carbon cycles through the atmosphere and organisms in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Carbon Storage:**

* 1) The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - stored to be used by plants for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* 2) The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - dissolved so that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and other aquatic plants can also use it for photosynthesis.
* 3) On \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in organisms, rocks and soil
* 4) The \_\_­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_- become part of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ rock formations such as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **OR** stored as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ (coal, oil and natural gas)

**Carbon Cycle (continued)**

**Human impacts on the Carbon Cycle**

* By burning **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_** we are releasing large amounts of  CO2 into the atmosphere.
* Carbon dioxide is a **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_** which increases the greenhouse effect (global warming)
* By cutting down **\_\_\_\_\_\_\_\_\_\_\_\_\_** we eliminate plants that can remove CO2 from the atmosphere.

**The Nitrogen Cycle**



* \_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the atmosphere is nitrogen, but plants and animals **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** use it in that form
* Special **\_\_\_\_\_\_\_\_\_\_\_\_\_** in the soil convert nitrogen into a form that plants can use
* Consumers (like us!) get our nitrogen by **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** those plants or other animals
* Nitrogen is often added to the soil with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, but too much nitrogen can cause problems!