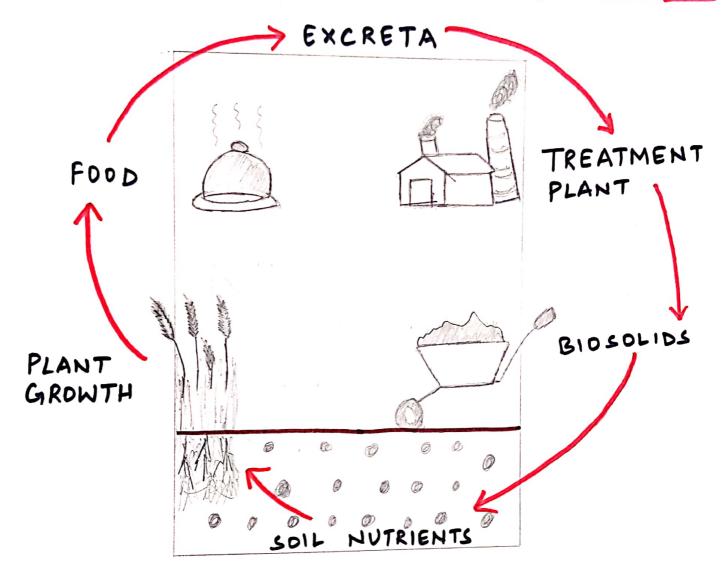
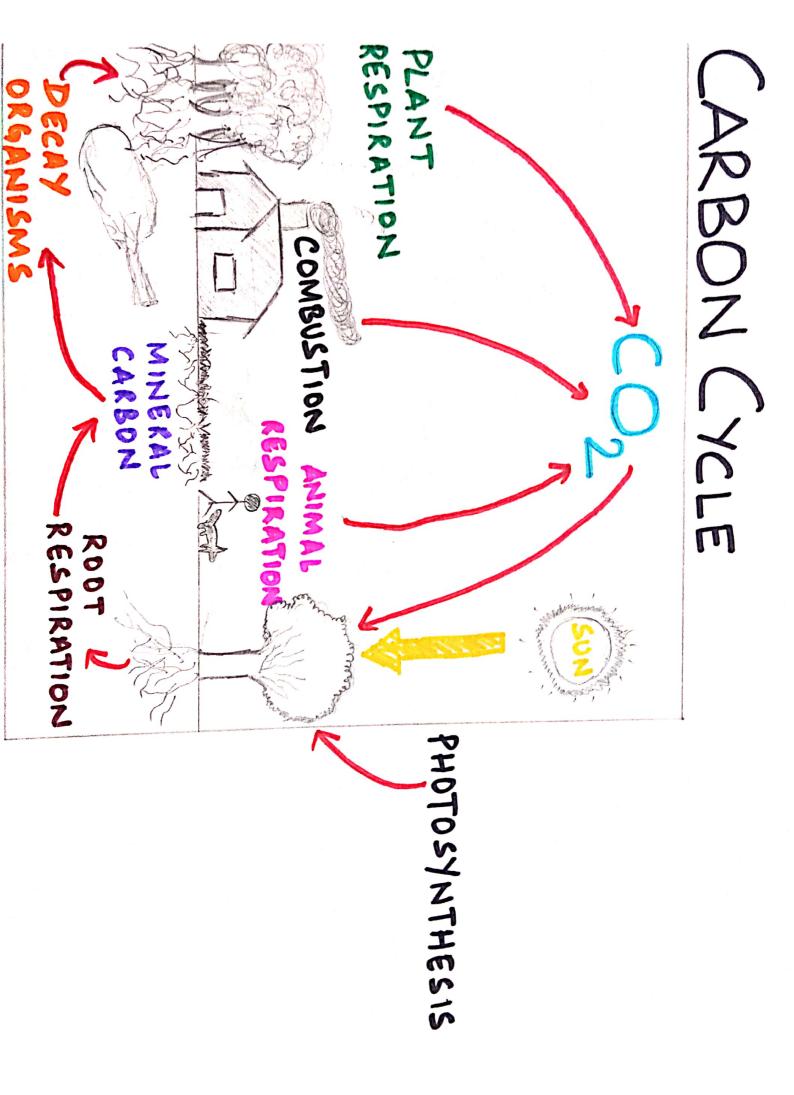
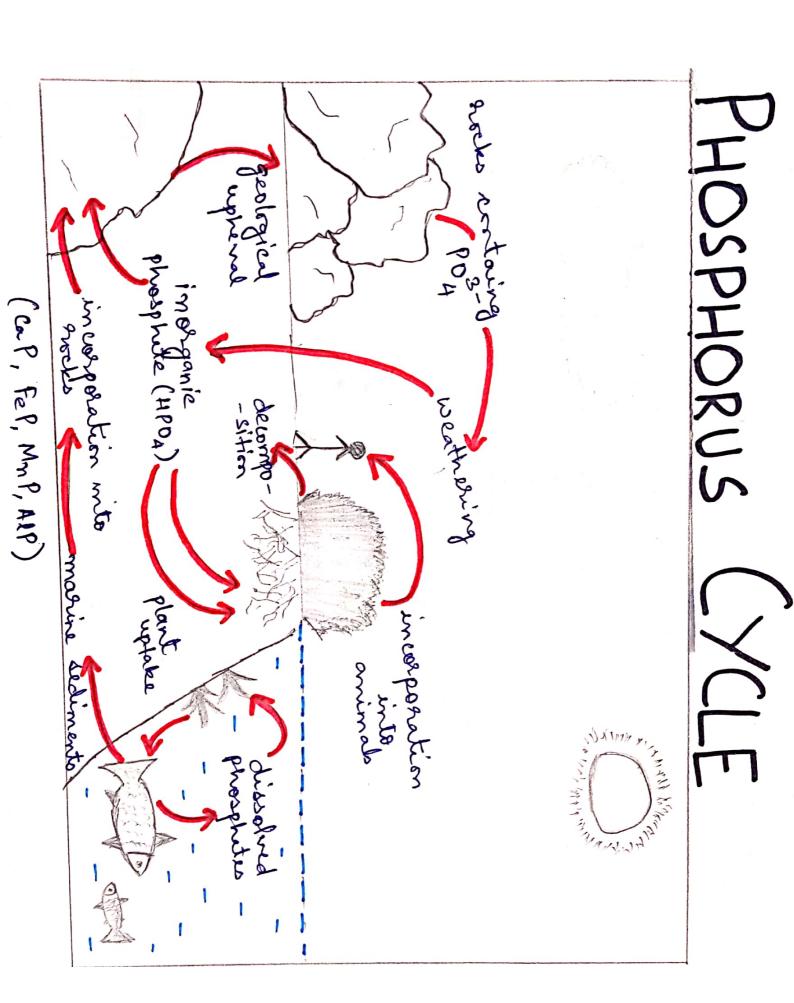
JUTRENT (XLE



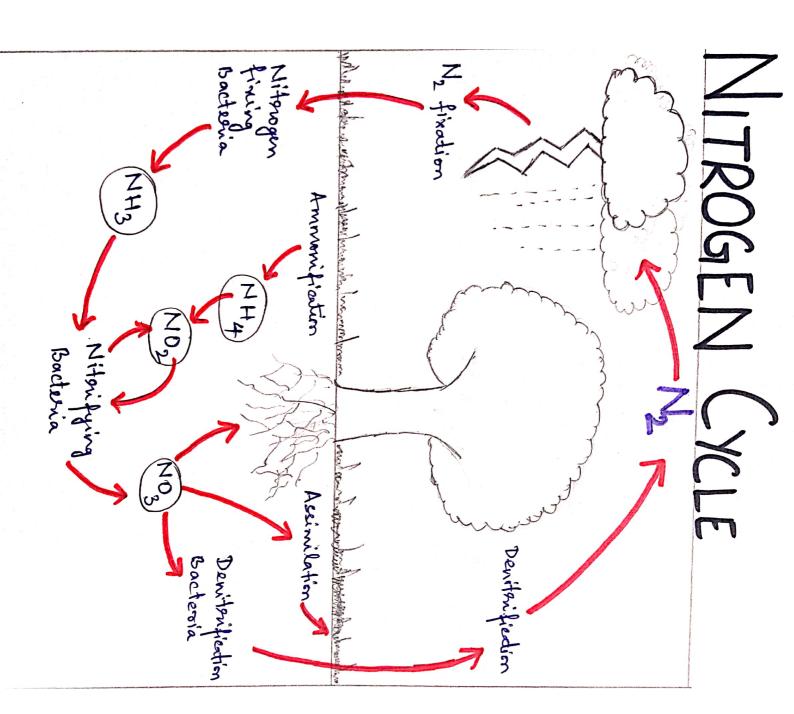
A nativient eyele (or ecological recycling) is the movement and exchange of organic and inorganic matter back into the peroduction of matter.



| CARBON CYCLE |
|--|
| The carbon cycle is the biogeochemical cycle |
| by which carbon is exchanged oming |
| the biosphie, pidosphie, geosphie, hydrosphie |
| and the atmospher of the Earth Carbon |
| is the nam component of biological compounds |
| as well as ninerals such as limestone. |
| Alongwheith other cycles set plays a key role |
| role in sustaining life on Earth. The |
| Carbon sycle neas discovered by Joseph Priestly |
| and Intoine Lanoisier, and popularised by |
| Humphry Dany. |
| Min components of Carbon Cycle are: |
| - terrestrial biosphie |
| - ocean |
| - lediments, fossil fulls |
| - Earth's interior (mantle and cerest) |
| |
| HUMAN ACTIVITIES AFFECTING |
| TIONAN TOTAL |
| CARBON CYCLE :- |
| of Fossil Fulls |
| (i) Burning of Fossil Fuels |
| (ii) Deforestation |
| (iii) Greenhouse Gas |
| (iv) Global warming. The content of CO2 |
| Such activities cause the content of Content of Content of Content the normal pattern to increase and disrupt the normal pattern of the increase and disrupt the increase and d |
| of the carbon eyele. |
| The aron |



HOSPHORUS CYCLE The phosphorus cycle is a biogeochemical cycle that discribes the movement of phophorus through the lithosphere, hydrosphere, and biosphere. The atmosphere does not play a significant role in the movement of phosphorus because phosphorus based compounds are usually solids at the typical ranges of temperature and pressure found on Earth. The phosphorus cycle should be viewed from whole Earth system and specifically focused on the cycle in the terristerial and aquatic systems. On land it reduces due to gradual weathering. Various human activities have caused major changes to the phosphorus eycle. IAN NTERVENTION Humans have caused major changes to the global phosphorus eyell are !-(i) shipping of phosphoans minerals (ii) use of phosphorus fatillizers (iii) shipping of food products where phosphorus is used as an effulent. such activities dispossess the natural cause devastating effect or

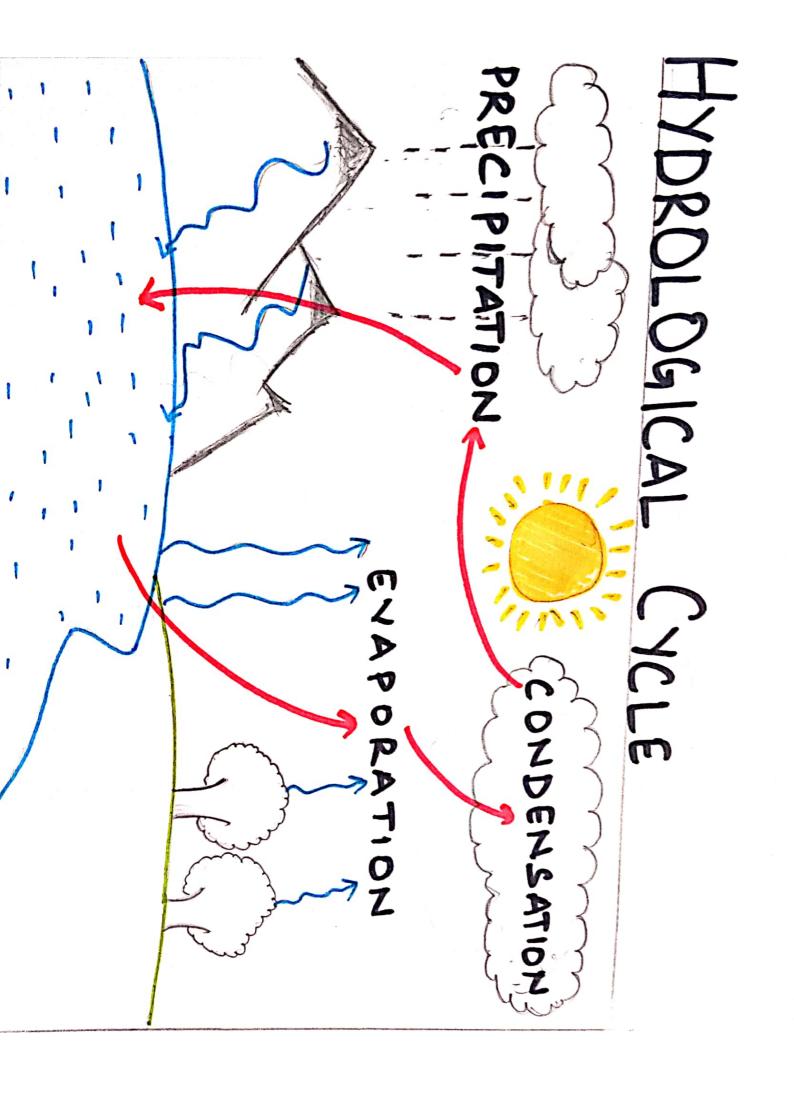


NITROGEN CYCLE

| The nitergen cycle is the biogeochemical |
|--|
| regale by which manager |
| multiple chemical forms |
| atmosphere, terrestial and marine anything |
| The removemen of megan is |
| through both biological and physical processes |
| |
| The niterogen cycle is of particular interest to ecologists because niterogen quailability |
| to ecologists because nitergen availability |
| can affect late of key ecosystems processes. |
| |
| The various processes innothed are :- |
| - Nitrogen Fination |
| - Assimilation |
| - Ammonification |
| - Nitroification |
| - De distribution of |

HUMAN INTERVENTION

Many human activities such as burning of full use of futilizers can increase the nitrogen content in the soil. Large changes in the amount of nitrogen due to these activities can disrupt the nitrogen expele and can harm the aquatic and terrestrial ecocystems.



HYDROLOGICAL CYCLE

The hydrological cycle descentes the continuous movement of venter on, above and below movement of venter on, above and below the surface of the Earth. The mass of venter on Earth remains fairly constant over time but the partioning of the nester into the major reservoirs of ice, fresh wester, adine nester and atmospheric nester is variable depending on a wide range of climatic variables. The nester cycle immolus the exchange of energy, which leads to temperate change when nester enaperates it takes up energy and when it condenses it releases energy. The mater is issential for for the maintaince of most lefe and ecosystems on the planet.

HUMAN INTERVENTION

Large scale human manipulation of nester has
significantly altered global patterns of attransflow,
houlting changes in sea lund, ocean
salinity and in biophysical peoperties of
the land surface could ultimately
generate climate fudbacks. Activities affecting
are: - Recursois, Ground nester mining,
larigation, Combustion, Defendation, Wetlands.