

## Warm-up 2-9-10

### Carbon Cycle:

- Why is carbon important?
- How does carbon enter the atmosphere? In what form (compound)?
- How does carbon enter the ground? In what form?
- How does carbon enter the water? In what form?
- How do humans influence the carbon cycle?

### Nitrogen Cycle:

- Why is nitrogen important?
  - How does nitrogen enter the atmosphere? In what form (compound)?
  - How does nitrogen enter the ground? In what form?
  - How does nitrogen enter the water? In what form?
  - How do humans influence the nitrogen cycle?
- 
- Handwritten diagram illustrating the nitrogen cycle:
- Atmosphere:  $N_2$
  - Process:  $N_2 \xrightarrow{\text{Bacteria Fixation}} NH_3, NH_4^+$
  - Process:  $NH_4^+ \xrightarrow{\text{Nitrification}} NO_3^-$
  - Human Influence:  $NO_3^-$  (from fert/sewage/fossil fuel)

## Sulfur Cycle:

- a) Why is sulfur important?
- b) How does sulfur enter the atmosphere? In what form (compound)?
- c) How does sulfur enter the ground? In what form?
- d) How does sulfur enter the water? In what form?
- e) How do humans influence the sulfur cycle?

## Phosphorus Cycle:

- a) Why is phosphorus important?
- b) How does phosphorus enter the ground? In what form?
- c) How does phosphorus enter the water? In what form?
- d) How do humans influence the phosphorus cycle?