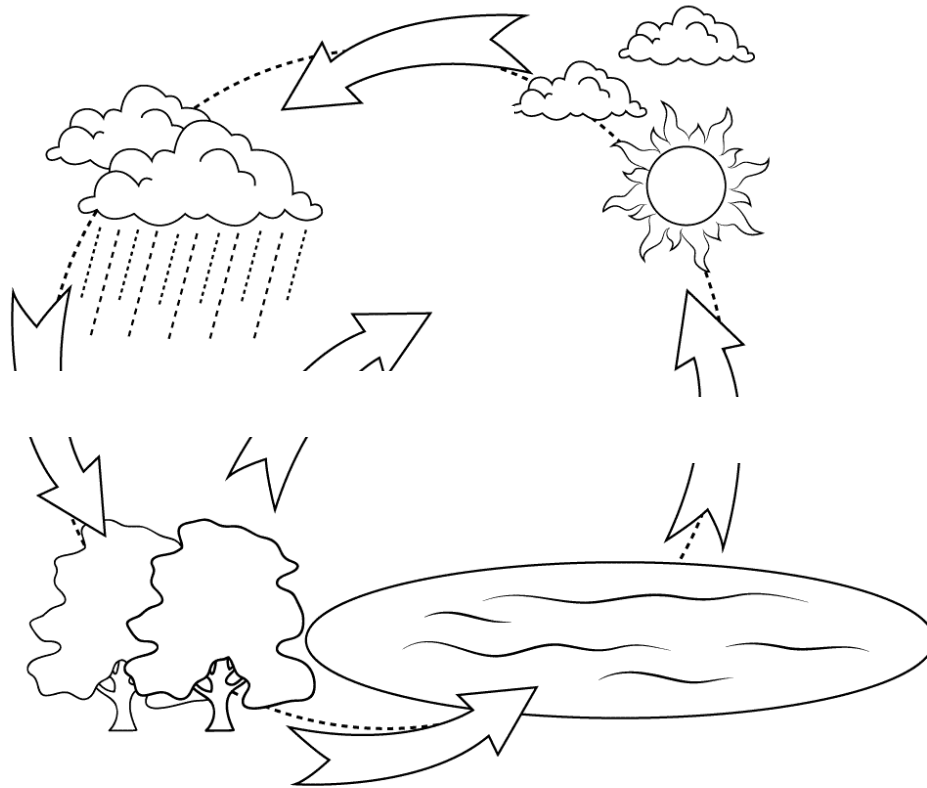


BIOLOGY
Chapter 13.5

Name _____ Period _____

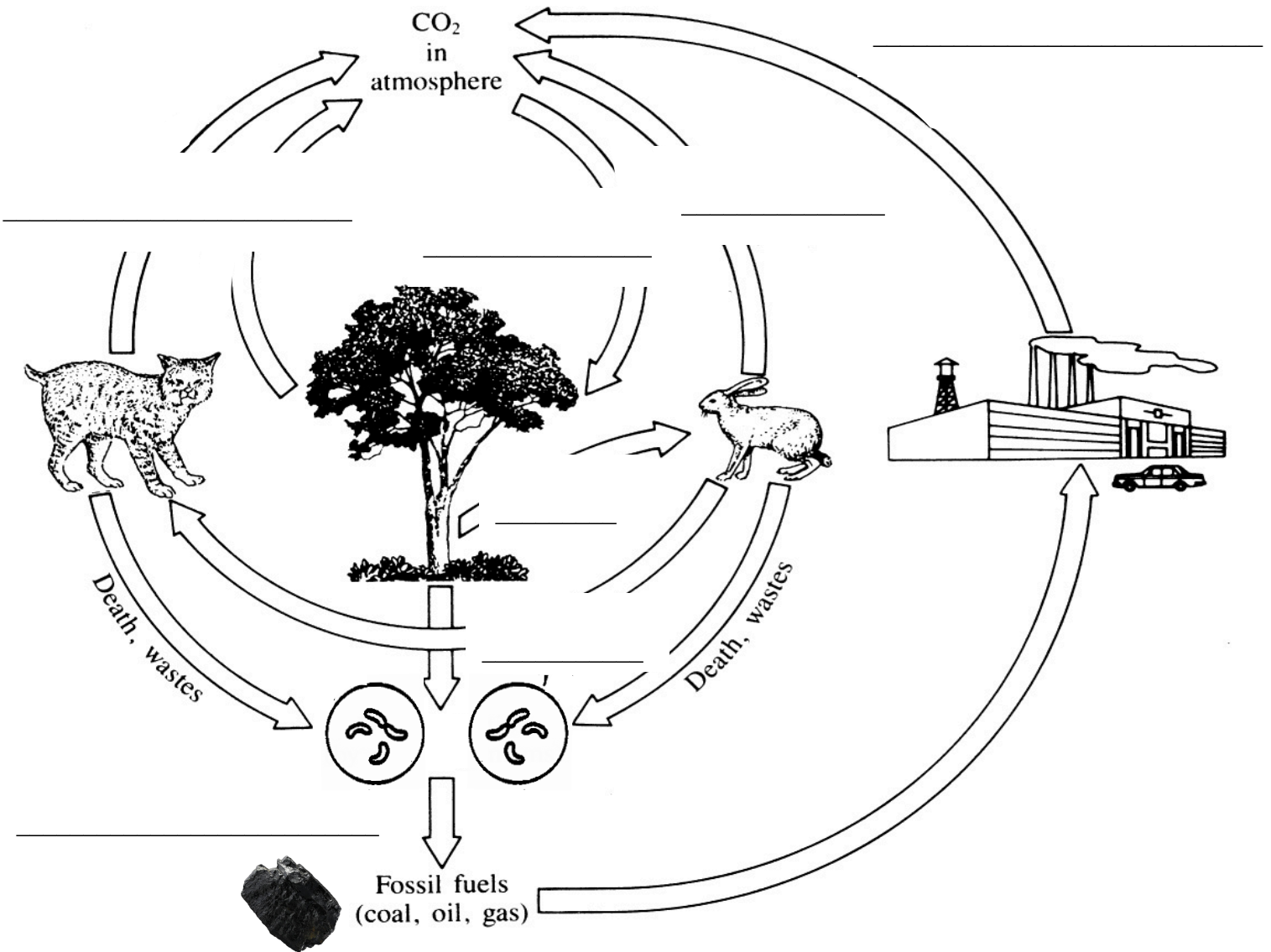
Biogeochemical Cycles (Book 412-416; IR 232-235)

1. What is a biogeochemical cycle?
2. Explain, in **1 paragraph**, the water cycle using the following terms: *evaporation, transpiration, condensation, precipitation, runoff, and seepage*.
3. Label the diagram (Book 413; IR 232):



4. What are two ways that water can enter the atmosphere?
5. What process moves water from the air to the ground?
6. Water is a vital resource for life on earth. What are several ways in which you see water being wasted in your community? What are some suggestions that will help limit the amount of water wasted?
7. Why do living organisms need nutrients?
8. Write **1 paragraph** summarizing the CARBON CYCLE using the following terms: *Photosynthesis, respiration, autotroph, heterotroph, decomposer, carbon dioxide*.

9. Label the carbon/oxygen cycles (Book 414; IR 233):



10. What two processes (major events) drive the carbon/oxygen cycles?
11. Based on your information of the carbon cycle, what might happen if large areas of forests are cleared?
12. Why do all organisms require nitrogen?
13. What is nitrogen fixation?
14. What role do decomposers play in the nitrogen cycle?
15. Ecologists discovered that trout were dying in a stream that ran through some farmland where nitrogen fertilizer was used on the crops. How might you explain what happened?