

Chemical Cycles in the Biosphere

Name _____ Date _____ Block _____

Answer the following questions while viewing Chemical Cycles in the Biosphere.

1. What happened in Minimata Bay, Japan in 1956 and the ensuing 50 years?
2. What chemical caused the incident in Minimata Bay? _____
3. What are the 4 major gases in air? _____
4. What is the waste product of photosynthesis? _____
5. Name 2 coequal, complimentary processes. _____
6. Certain bacteria need oxygen to do what? _____
7. What 2 things have nitrogen as key parts of their structure? _____
8. What happens to the nitrogen that you inhale?
9. Explain how nitrogen is “fixed”.
10. What is the big deal about special hybrid corn?
11. In what form is nitrogen when it is taken up by green plants? _____
12. What do animals then do with them? _____
13. What eventually happens to animal proteins and enzymes?
14. What do denitrifying bacteria do?
15. How did the mercury get so concentrated in the cats and humans in Minimata Bay?
16. What compound is inextricably intertwined with the O₂/CO₂ cycle?
17. What can you NOT do on a “spaceship” like Earth?