21. Model 3 illustrates how nature recycles what natural resource?

22. Name three types of bacteria involved in the nitrogen cycle.

Read This!

**Nitrification** is a process by which specific bacteria convert different forms of N-containing compounds (like ammonia, NH₃) in the soil to nitrites (NO₂) and nitrates (NO₃). This process is important since the only forms of nitrogen that are usable by plants to build their proteins are the nitrates.

23. In what ways is N₂ gas removed from the atmosphere?

24. By what process are animal wastes and dead organisms converted to other nitrogen-containing compounds?
25. What is the only form of nitrogen that nonlegume plants can take in and use?

26. What do the denitrifying bacteria do during the denitrifying process?

27. If the number of nitrifying bacteria decreased, what effect would this have on the nitrogen cycle and what type of compounds would accumulate as a result?