

Nitrogen Cycle Game

Do not write on this page.

Answer the following questions in your notebook.

Discussion questions: Please discuss the following and record your answers below.

- How many stops can you make on your trip?
- Will your journey ever end?
- Was everyone's journey the same? Why not?
- What would happen if a farmer used too much fertilizer? (In this game, that would mean that everyone starts from the fertilizer station at the same time.)
- What would happen if we burnt too many fossil fuels?
- Livestock farming creates a large amount of animal waste. How would this affect the nitrogen cycle?

Final write-up:

- Write a summary of your trip through the cycle including (1) where you went, and (2) how you got there.
- Look at the example of a diagram of the nitrogen cycle on the board. Create a diagram documenting only your journey through the nitrogen cycle.
- This game was a model of the nitrogen cycle, which in some ways was like the real world, but in other ways was unlike the real world. Now that you've made your diagram of your journey through the nitrogen cycle, and you've seen an accurate diagram, discuss how you could adapt the game to be more like the real nitrogen cycle process.