Assignment #2. Due Thurs Feb 20

- 1. Explain in your own words what *thermodynamic entropy* is (*i.e.*, the notion of entropy that appears in *thermodynamics*), and how it relates to the Clausius and/or Thompson version of the 2nd Law of thermodynamics.
- 2. How is Maxwell's Demon supposed to violate the 2nd Law? What does Maxwell mean by claiming that this entails the 2nd Law is only "statistical" in nature?
- 3. How is Smoluchowski's trap-door device supposed to violate the 2nd Law? How is Szilard's one-molecule engine supposed to violate the 2nd Law?