

Internal Energy Questions

1. Which has more internal energy, a tree or a leaf? How do you know?
2. Does a hot cup of coffee have more internal energy than a cold cup of coffee? How do you know?
3. Which has more internal energy, an iceberg or a hot cup of coffee? How do you know?
4. If water is boiling, is it losing internal energy? Explain.
5. Rank the sun, moon, and earth from greatest to least internal energy.
6. The internal energy of an ideal gas is 50000 Joules. In a more realistic model, would the internal energy be greater or lesser?
7. (25pts!!!!) We have seen over and over again that energy is a useful concept in solving problems. All the time politicians talk about energy, clean energy, and the energy economy. We often discuss energy as a concept but it is not very tangible. So, what is energy? Your task for this problem is to do a little research about energy and write a one page paper discussing what energy is and why energy is so important to humans. (If you are having trouble getting started try using the following keywords in your search: thermodynamics, engines, climate change, clean energy, green energy, energy economy, entropy, greenhouse effect, greenhouse gases).