

Name _____

A very important ability in science is to be able to explain things in simplistic terms, and it takes a decent amount of skill to do this. As Dr. Tyson put it, "If I have to give you a complex theory to explain a complex phenomenon, send me home"!

In an effort to develop our ability to communicate complex ideas, some of our work will call for you to ELI5 (explain like I'm 5 years old).

Please try to explain the phenomena below in a way that most people can understand. The phase diagram is provided as a reference.

- I. "Each substance has its own boiling point." ELI5: How could you use the information from this statement to separate a mixture of two liquids into two pure liquids?
- II. A pressure cooker is used to cook foods faster by increasing the pressure in a chamber. ELI5: How does this work?
- III. Snow is not made by rain freezing, but rather by a process of deposition. ELI5: How and why does this occur?

Attach a typed response to each of these prompts (min. 1 paragraph). Remember to check for correct grammar and spelling.

