

Name of Student:

Teacher:

Date:

Class:

Check one:

Pretest

Posttest

1) Explain the relationship between the strength of van der Waals attractions a substance has between its molecules and the boiling point of that substance.

2) A lab technician attempted to separate substance A from B. He heated the mixture up and then condensed the evaporate. When he captured the liquid and tested the purity he found that both substance A and B were in the captured liquid. In fact the mixture was similar to the original mixture. Describe two possible reasons why the mixture didn't separate?

Reason 1:

Reason 2:

3) Describe in detail the step-by-step process of what occurs to the molecules of two substances during a successful distillation.