

## **Kinetic Molecular Theory Homework**

- 1) What is the difference between effusion and diffusion? Which one best describes the movement of scent molecules from an air freshener?
- 2) When describing the energies of gas molecules, why do we have to convert all energies into Kelvin rather than degrees Celsius?
- 3) Explain why it's not unreasonable to say that "gas molecules are infinitely small", even though they are not.
- 4) Explain why you can compress a gas and not a liquid or solid, based on your knowledge of all three phases of matter.
- 5) Use Graham's law of effusion to determine how much faster methane molecules will travel than  $\text{H}_2\text{S}$  molecules.