**QUESTIONS TO HAND IN – EXPERIMENT 17**

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**LAB INSTRUCTOR\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_LAB DAY/TIME\_\_\_\_\_\_\_\_\_\_ \_ \_\_**

**1.** What are the SI units of the latent heat?

**2.** The boiling point of water at atmospheric pressure is 100 °C. If you put some water in a pan at room temperature, and start adding heat at a constant rate, describe what happens to the temperature as the water absorbs heat at room temperature, starts to boil, and then completely boils away.

**3.** A pot of water with a mass of 1 kg is heated to the boiling point. How much heat is required to boil it all away?

**4.** On the atomic level, what does the latent heat energy do if it doesn't change the temperature?

**5.** What is the reverse process to evaporation? Give an everyday example of the extraction of latent heat as this process occurs.