

## Lecture 4

### Pre-Lecture Preparation (due within the first 5 minutes of class):

- Read pages 590 – 600 in the textbook (Serway 9<sup>th</sup> edition) and do the following:
  - 1) Quick Quizzes 20.1 – 20.2
  - 2) Book Objective Questions (p. 616): 5 and 6
  - 3) Book Problems (p. 617): 1

### Goals for the Lecture:

- 1) Understand the concept of heat (as opposed to temperature we learned about in chapter 19)
- 2) Understand specific heat capacity
- 3) Be able to do calorimetry problems, including phase changes that involve latent heat of fusion and vaporization

### Post-Lecture Study Guide (I do not collect this):

Review the worksheets or other lecture material within 24 hours (preferably the same day as the lecture) to reinforce the ideas. Review the pre-lecture questions to make sure you understand them.

Do problems:

Ch 20: Conceptual Questions: 2 and 3

Ch 20: Objective Questions: 10

Ch 20: Problems: 18 and 20

Continue with the additional recommended study problems from chapter 20