

CALORIMETRY SPECIFIC HEAT LAB replacement activity (spring 2020)

WHAT TO TURN IN (upload answers to Focus-Portal): KWL chart; Questions 1-4

OBJECTIVE

To learn about calorimetry in the absence of an in-person lab

PROCEDURE

- 1) Set up one KWL chart.
K = What do you KNOW already about calorimetry
W = What do you WANT (or need) to know about calorimetry
L = What did you LEARN about calorimetry
Fill in the K part first. Leave the other columns blank for now.
- 2) Watch the following short videos:
<https://www.youtube.com/watch?v=8gHFAL2990U>
<https://www.youtube.com/watch?v=yhNHJ7WdT8A>
- 3) Fill in the rest of the KWL chart.

QUESTIONS

- 1) What physical properties, other than specific heat, could you use to help you identify metal samples?
- 2) Why is water an excellent material to use in the calorimeter?
- 3) In an insulated environment, HEAT LOST = HEAT GAINED.
What substance loses heat in the calorimeter? What substance gains heat?
- 4) Explain with a “low specific heat” means in terms of heat retention and heat requirements.