

Chapter 5 Can I?

Explain to a non-chemistry student the concepts of a system and its surroundings.

State the first law of thermodynamics

Relate heat, work, and change in enthalpy

Apply the principles in table 5.1

Determine whether an experiment is endo or exothermic.

Calculate enthalpy in many ways

Calculate enthalpies of reaction

Solve problems involving calorimetry

Apply the quantitative principles of Hess's law

Calculate enthalpies of formation

Balance a chemical reaction from words?

Calculate the change in enthalpy in a reaction given words and a table of enthalpies of reaction

Calculate the limiting reactant

Calculate the number of joules that would be released or absorbed in a reaction given a word reaction and a table of data

Calculate the change in temperature that would occur to water that a reaction occurs in.

Determine the change in enthalpy through the application of Hess' Law

Calculate the change in enthalpy of the reverse reaction given the forward reaction

Write a balanced dissolution reaction

Solve calorimetric problems

Apply solubility rules