Weekly Sheet for HS2 Chemistry

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Week #21, January 23-27

January School Wide Memory Verse:

Galatians 5:22-23 22 But the fruit of the Spirit is love, joy, peace, patience, kindness, goodness, faithfulness, gentleness, and self-control. 23 There is no law against things like this. (CEB).

Topics/Content/Skills:

-Students will be able to calculate heat of reaction using each of the five ways:

1. Calorimetry, 2. Specific heat, 3. Stoichiometry, 4. Hess' Law, 5. Using heats of formation.

- Students will articulate the role of entropy in determining whether a reaction will occur spontaneously.

Vocabulary/Key Terms/Formulas:

- $q=mc\Delta T$
- Entropy – a measure of disorder in a system.
- Free-energy change—a measure of the overall tendency of a system towards natural change.
- The tendency throughout nature is to move towards greater disorder (greater entropy) and lesser energy.

Homework/Classwork: (All homework is due the next class day unless indicated.)

	In Class	Homework
Monday	Our fifth and final way of determining heat of reaction: Calculating using heats of formation	
Tuesday	Heats of Formation cont'd. Review	Homework #5
Wednesday	NO CLASS	
Thursday	Introduction to Entropy, Free Energy	Homework #6
Friday	Entropy, Free Energy Lab	Homework #7

Tests/Due Dates:

5 ways to determine heat of reaction Quiz, *Monday, January 30, 2012*

Unit 4 Test—Thermochemistry, *Friday, February 3, 2012*

Special Events/News:

Extraordinaries/Mastery Review Topics: