Thermochemistry Problems - Worksheet Number One (answers available on web site)

1. How much energy must be absorbed by $20.0~{\rm g}$ of water to increase its temperature from $283.0~{\rm ^{\circ}C}$ to $303.0~{\rm ^{\circ}C}$?

 When 15.0 g of steam drops in temperature from 275.0 °C to 250.0 °C, how much heat energy is released?

How much energy is required to heat 120.0 g of water from 2.0 °C to 24.0 °C?

4. If 720.0 g of steam at 400.0 °C absorbs 800.0 kJ of heat energy, what will be its increase in temperature?

5. How much heat (in kJ) is given out when 85.0 g of lead cools from 200.0 °C to 10.0 °C? (C_p of lead = 0.129 J/g °C)

6. If it takes 41.72 joules to heat a piece of gold weighing 18.69 g from 10.0 °C to 27.0 °C, what is the specific heat of the gold?

7. It takes 333.51 joules to melt exactly 1 gram of H₂O. What is the <u>molar</u> heat of fusion for water, from this data?

A certain mass of water was heated with 41,840 Joules, raising its temperature from 22.0 °C to 28.5 °C. Find the mass of water.

How many joules of heat are needed to change 50.0 grams of ice at -15.0 °C to steam at 120.0 °C. Make a graph to indicate this change.

10. Calculate the number of joules given off when 32.0 grams of steam cools from 110.0 °C to ice at -40.0 °C. Make a graph to indicate this change.

11. You have a sample of H₂O with a mass 23.0 grams at a temperature of -46.0 °C. How many kilojoules of heat energy are necessary to carry out each step? Also, please calculate the total amount of energy needed and make a time-temperature graph.

a) heat the ice to 0.0 °C?

b) melt the ice?

c) heat the water from 0.0 °C to 100.0 °C?

d) boil the water?

e) heat the steam from 100.0 °C to 109.0 °C?

12. Calculate the energy released when 10.0 g of steam at 120.0 °C are converted into ice at minus 20.0 °C.

13. How much energy is required to convert 100.0 g of water at 20.0 °C completely to steam at 100.0 °C?

14. What amount of ice must be added to 540.0 g of water at 25.0 °C to cool the water to 0.0 °C and have no ice remaining?

15. How many grams of ice could be melted by the energy obtained as 18.0 g of steam is condensed at 100.0 °C and cooled to 0.0 °C?

16. If 150.0 grams of iron at 95.0 °C, is placed in an insulated container containing 500.0 grams of water at 25.0 °C, and both are allowed to come to the same temperature, what will that temperature be? The specific heat of water is 4.18 J/g °C and the specific heat of iron is 0.444 J/g °C)

17. When 80.0 grams of a certain metal at 90.0 °C was mixed with 100.0 grams of water at 30.0 °C, the final equilibrium temperature of the mixture was 36.0 °C. What is the specific heat (Joules gram-1 °C-1) of the metal?

18. Calculate the specific heat of a metal if a 55.0 g sample of an unknown metal at 99.0 °C causes a 1.7 °C temperature rise when added to 225.0 g of water at 22.0 °C.

19. If 10.0 g water at 0.0 °C is mixed with 20.0 g of water at 30.0 °C, what is the final temperature of a mixture?

 $20.\,15.0$ g of water at 0.0 °C are added to 40.0 g of water at 40.0 °C. What is the final temperature of the mixture?

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Aftab S. Hassan, James L. Flowers

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