Name_	
	Period

Chemistry: Heat

1. 150.0 g of ice @ -25.0°C is dropped into water @ 25.0°C. The equilibrium temperature is 10.0°C. What is the volume of water?

2. 100.0 grams of iron at 555.0° C is dropped into 100.0 ml of water. The equilibrium temperature of the mixture is 75.0° C. What was the initial temperature of the water? (C_{Fe} = .1255 cal/g°C)

3. 5.555 kg of steam at 1355°F is cooled to ice at -350.55°C. How much energy was lost?

4. What is the mass of an ice cube that started at -10.0° C that was dropped into 100.0 ml of water that starts at 10.0° C if the equilibrium temperature of the mixture is 4.00° C?