

Physics Chpt 12 Rev 3

1. 55.0 g of ice at 0.0°C are placed in a 225 g aluminum cup containing 455 g of water at 85.0°C . What is the final temperature of the mixture?
2. What is the "c" of a 82 g metal block at 100.0°C it is put in 105 g of water at 13.1° in a 88.0 g aluminum cup and the final temperature is 22.5° ?
"c" of aluminum is 903 J/kg C
3. What is the final temperature of 333 g of water at 91.0° in a 82.0 g aluminum cup if 45.0 g of ice are added?... (consider the ice to be at 0°)
4. 75.0 g of ice at -20.0°C are added to 1.11 kg of water at 97.0°C . What is the final temperature of the mixture?