

Materials - Styrofoam cup, paper towel, thermometer, ice, plastic spoon, balance

PROCEDURE

1. Mass an empty cup and record your answer as data below.
2. Fill the cup half full of water and measure the mass. Record as data below.
3. Put your thermometer into the cup of water. Record the temperature as the initial temperature.
4. a) Pat dry several small ice cubes and immediately put them in the cup. Stir with your plastic spoon and record the initial temperature.
b) Add ice as needed until the temperature drops to approximately 0°C.
c) When the temperature stops falling (approximately 0°C) record the final temperature and quickly remove the remaining ice with your spoon. Pour any water left in your spoon back into the cup.
5. Mass the cup of water and melted ice and record as data.

DATA:

mass of empty cup = _____

mass of cup & water = _____

mass of cup & water
& melted ice = _____

initial temperature = _____

final temperature = _____