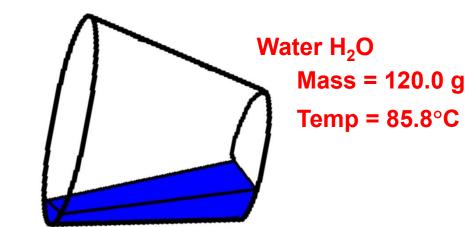
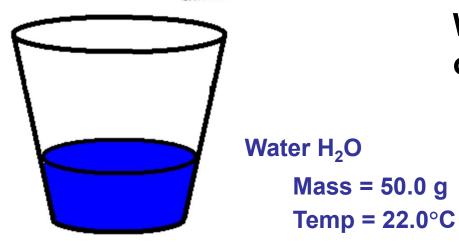
More Calorimetry: Mixing Liquids

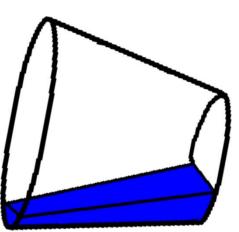


What is the final temperature of the water mixture?

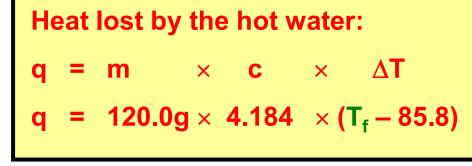


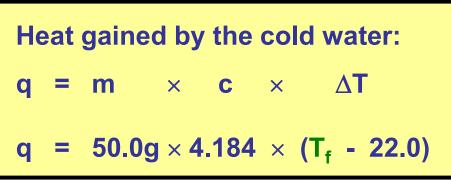


More Calorimetry: Mixing Liquids



Water H_2O Mass = 120.0 g Temp = 85.8°C





Water H_2O Mass = 50.0 g Temp = 22.0°C



More Calorimetry: Mixing Liquids		
q _{lost} + q _{gained}	=	0
$120.0g \times 4.184 \times (T_f - 85.8) + 50.0g \times 4.184 \times (T_f - 22.0)$	=	0
$502.08 \times (T_f - 85.8) + 209.2 \times (T_f - 22.0)$	=	0
502.08 T _f - 43078.464 + 209.2T _f - 4602.4	=	0
711.28 T _f - 47680.864	=	0
T _f	=	67.0°C