Name  College Prov. Chamistry of the Fourth System	Period
College Prep Chemistry of the Earth System Assignment 7D – Specific Heat of Matter Define the following terms based on energy of a	20 Points
Define Specific Heat	What defines the specific heat constant (c)?
	ATI
Solve the following heat capacity problems [Spin call = $0.900 J/^{\circ}C$ , $m_{Al} = 26.39 g$ $\Delta T = 16.38^{\circ}C$	c <sub>Ba</sub> = 0.203J/°C , m <sub>Ba</sub> = 39.42g $\Delta T = -38.42$ °C
q =	q =
q =	q =
$c_{Fe}$ = 0.46J/°C , $m_{Fe}$ = 29.28g $\Delta T$ = 104.21°C	$c_{Pb}$ = 0.13J/°C , $m_{Pb}$ = 43.49g $\Delta T$ = -14.21°C
q =	q =
q =	q =
$c_{Ni} = 0.44 \text{J/°C} \; , \; m_{Ni} = 8.49 g \\ T_{ini} = 29.52 \text{°C} , \; T_{final} = 41.42 \text{°C} $	$c_{Si}{=}~0.71 \text{J/°C}~,~m_{Si} = 53.57 g \\ T_{ini} = 102.48 \text{°C},~T_{final} = 68.15 \text{°C}$
$\Delta T =$	$\Delta T =$
$\Delta T =$	$\Delta T =$
q =	q =

 $\mathbf{q} =$ 

 $\mathbf{q} =$