

Name

Sample Data + Calculations

Period

Lab 4 – Energy Content of Snack Foods

50 Points

Lab Data Table

Mass Water	Mass Chips	T _{initial}	T _{final}	q _{water}	q _{chip}
50.0 g	13.6 g	22 °C	89 °C	J	J

(-q_{water})

Calculations

ΔT	ΔT = T _{final} - T _{ini}	q _{water}	q _{water} = c _{water} · m _{water} · ΔT c _{water} = 4.184 J/g°C
ΔT = T _{final} - T _{ini}		q _{water} = c _{water} · m _{water} · ΔT	50.0
q _{chip}	q _{chip} = -q _{water}	c _{chip} (Heat Capacity)	c _{chip} = q _{chip} / m _{chip}
q _{chip} = -q _{water}		c _{chip} = q _{chip} / m _{chip}	
		c _{chip} = _____	