Name _____ Date _____ Pd_____

THERMODYNAMICS POP QUIZ: Exit Ticket

(1) A copper wire (*specific heat: 385 J/Kg·°C*) has a mass of 0.0165 kilograms. An electric current runs through the wire for a short time and its temperature rises from 21°C to 39°C. What min. quantity of **heat** energy is converted by the current?

(2) **Convert** the following **Temperatures**:

°C	K	°F
0 °C		
		212 °F
	450 K	
		98.6 °F

(3) Explain **Entropy**: _____
_____

(4) Explain the **Law of Conservation of Heat Energy** (1st law of Thermodynamics): _____
_____

(5) A negative ΔT indicates a _____ of heat. A positive ΔT indicates a _____ of heat.

Name _____ Date _____ Pd_____

THERMODYNAMICS POP QUIZ: Exit Ticket

(1) A copper wire (*specific heat: 385 J/Kg·°C*) has a mass of 0.0165 kilograms. An electric current runs through the wire for a short time and its temperature rises from 21°C to 39°C. What min. quantity of **heat** energy is converted by the current?

(2) **Convert** the following **Temperatures**:

°C	K	°F
0 °C		
		212 °F
	450 K	
		98.6 °F

(3) Explain **Entropy**: _____
_____

(4) Explain the **Law of Conservation of Heat Energy** (1st law of Thermodynamics): _____
_____

(5) A negative ΔT indicates a _____ of heat. A positive ΔT indicates a _____ of heat.