Name:

COLONIAL CHRISTIAN SCHOOL



Heat Assignment

$$F = \frac{9}{5}C + 32$$

$$K = C + 273.15$$

Example: 15°C to °F

F = 9/5C+32

F = 9/5(15) + 32

F = 27+32

F = 59

SHOW YOUR WORK. CIRCLE YOUR ANSWER.

Convert the following to Fahrenheit using a calculator. For a high grade, write a computer program or Excel worksheet that converts any temperature instead.

25°C	Kindling temperature of Paper 218–246 °C
100°C	Kindling temperature of Iron 1,315 °C
-273°C	Kindling temperature of Phosphorus 34 °C

Convert the following using a calculator.

74°F to °C	Mercury melts at 234.28 °C, What is that in °F
100°C to °K	Lead melts at 621.7 °F, What is that in °K
20°C to °K	Air in a blimp is 185°F, what is that in °K



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 $Q = c_{sp} m \Delta t$

C_{sp} = Specific Heat J/(Kg °C)

Q = Heat in Joules KgM²/S²

∆T =Temp Change in °C

M = Mass in Kg

Specifc Heats		
In J/Kg °C		
H ₂ O	4200	
Cu	384.5	
Fe	449.4	

