

# Notes for Bio

Energy = ability to do work

work = force + distance

Units  $\Delta Q = m \Delta T \cdot C_p$  Delta means - the change in something

Change in heat

started at  $T_0 = 20^\circ\text{C}$   
ended at  $T_1 = 30^\circ\text{C}$

$$\Delta T = T_1 - T_0$$

lab  
H<sub>2</sub>O mass (g)  
~ 180g

The final - the initial

C<sub>p</sub> is the # 4.2

Forms of energy -

heat

Kinetic

Chemical

units

we use the unit joule  
familiar in calories

energy intact is calories

Calories Not

→ Calorie the same

1 mL = eye dropper

750 mL

$\Delta T$  15-16

$\Delta T$  23-24

$\Delta T$  77-78

1 mL = 1 cm<sup>3</sup> = 1 gram  
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