## Chemistry 2.4 Structure, bonding and Thermodynamics

Summary flow chart



Molar Mass	Concentration
$\frac{m}{n} = M = g \ mol^{-1} = \frac{g}{mol}$	$\frac{n}{V} = c = molL^{-1} = \frac{mol}{L}$
Enthalpy	Specific heat
$H = \frac{E}{n} = kJmol^{-1} = \frac{kJ}{mol}$	$\Delta E = m \times s \times \Delta T = J = g \times J g^{-1} \circ C \times \circ C$
Density of water	Bond Energy
1 g mL <sup>-1</sup> = 1 kg L <sup>-1</sup>	$\Delta H = \sum BE_{(reactants)} - \sum BE_{(products)}$
Endothermic reaction	Exothermic reaction
H reactant	H reactant product









