**Strand 3: Physical Chemistry**

Lesson 2 of Week 1 of Term 2: **Energy Change**

Resource: Esa study Guide, Level 2 Chemistry, Chapter 11 (was photocopied last year 2019), online as well

The learning outcomes targeted in this activity are provided in the table below,

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| **SLO Code** | **SPECIFIC LEARNING OUTCOMES (SLO):**  | **SKILL LEVEL** |



Activity

1. Define/Interpret the following terms in terms of energy changes
	1. Hess’s Law
	2. Activation energy
	3. Energy change in a reaction
	4. Catalysts
2. Sketch an energy profile diagram of enthalpy reactions and label as activation energy, energy change in a reaction and addition of a catalysts.

1. Relate/show how the amount of energy change in a thermo-chemical equation
2. The equation for the burning of carbon is

C + O2 CO2  = -400KJ mol

Calculate  when 6 g of carbon is burned