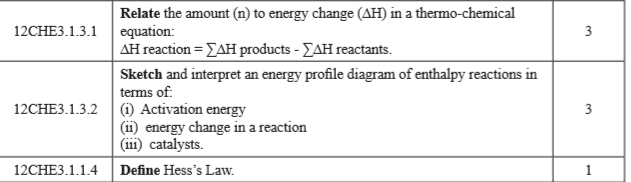
**Strand 3: Physical Chemistry**

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,

|  |  |  |
| --- | --- | --- |
| **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