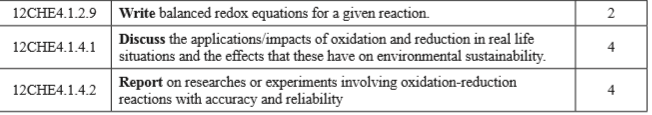
**Strand 4: Oxidation and Reduction**

Lesson 3 of Week 10: **Oxidation and Reduction**

Resource: Esa study Guide, Level 2 Chemistry, Chapter 21 & 24 (chpt 24 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. The extraction of aluminium is carried out by the electrolysis of molten aluminium oxide(alumina) dissolved in cryolite (sodium aluminium fluoride)
   1. Write a balanced half-equation for the reaction at the cathode
   2. Write a balanced half-equation for the reaction at the anode
   3. Combine the two half-equation from a. and b. to give a balanced equation for the overall reaction
2. Discuss/list the impacts/applications of oxidation-reduction in real life
3. Point out the effects (to above list) that these have on environment sustainability
4. Report on researches or experiments involving oxidation-reduction reactions with accuracy and reliability: Note to watch a video on oxidation-reduction reaction and make your judgement.
   1. Accuracy
   2. Reliability