**Strand 2: Quantitative and Aqueous Chemistry**

Lesson 2 of Week 8: **Diluting solution and Acid-Base Titration**

Resource: Esa study Guide, Level 2 Chemistry, Chapter 3 & 4

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

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| **SLO #** | **SPECIFIC LEARNING OUTCOMES (SLO):**  | **SKILL LEVEL** | **SLO CODE** | **ACHIEVED (put a tick)** |
| 1 | Prepare dilute solution from solutions with higher concentration and report on the process and results. | 4 | 12Che2.1.4.2 |  |
| 2 | **Explain the process (or influences or uses of acid-base titration** | 3 | 12Che2.1.3.7 |  |
| *3* |  Define the terms: titration, titrant, titrand, titre, indicator, standardisation, end-point, equivalence point. | 1 | 12Che2.1.1.5 |  |

Activity

1. Prepare dilute solution from solutions with higher concentration and report on the process and results. Note: watch a video attached on preparing a dilute solution from a higher concentration.
	1. Report the process of carrying out the dilution
	2. Calculate the concentration of the solution
2. Explain in your own words the term acid-base titration
3. Outline (step by step)the process acid-base titration is carried out
4. Define the following terms
	1. titration
	2. titrant
	3. titrand
	4. titre
	5. indicator
	6. standardisation
	7. end-point
	8. equivalence point