

ACKNOWLEDGEMENT

The greatest thankful to the almighty Allah SWT for His gracious, merciful and blessing that have given the writer healthy and wisdom, to my Prophet Muhammad SAW as my life guidance and motivator until she can complete this thesis well accordingly to the planning time.

The thesis with the title **“Effect Of Thinking Skills Enhancement Learning Strategy Based On Collaborative Using eXe Learning And Creative Thinking Skills Towards Students Achievement In Acid And Base Topic “** is arranged to prerequisite to get Magister Chemistry Education in Medan State University.

In this chance, I would like to express my gratitude to my thesis supervisor Dr. Simson Tarigan, M.Pd and Prof. Dr. Retno Dwi Suyanti, M.Si that give me so many guidance and suggestion to prepare this thesis. My special beloved jealousy Husband Mohamed Rinas Abdul Razack for your support, love, pray, attention, and tension though, always be there with me even four hours different time (Indonesia-Dubai) for short time until I get my master, you are the only one. My special Sincere gratitude and beloved to my lovely father Drs. Irwan Safii M.Pd (my Greatest Man, motivator, hero and life), my lovely mama in the heaven Almh. Nur Isnani (who had given me 17 years time to be together with so much greatest moments, gave me so much power to be strong girl, and gave me so much motivation to face all terms of condition and situation in Allah way sincerely), my lovely mom Hj.Yenih Mulyati (who cares me so much and loves me much), thank you for all uncountable love that I got from you.

In this chance too, I say also my gratitude to :

1. Prof. Dr. Bornok Sinaga M.Pd as Directur of Postgraduate Program Medan State University
2. Prof. Dr. Ramlam Silaban M.Si as dean of Cemistry Education Study Program
3. Dr.Ajat Sudrajat M.Si, as secretary of Chemistry Education Study Program

4. Prof. Dr. Ramlam Silaban M.Si, Prof. Albinus Silalahi M.S, and Dr.Ajat Sudrajat M.Si as my examiners for their advices, suggestions, comments, guidance and correction to complete this thesis
5. Prof. Dr. Ramlam Silaban M.Si as validator for research instrument
6. Dr.Ajat Sudrajat M.Si, Prof. Dr Ramlan Silaban M.Si as my examiners for their advices, suggestions, comments, guidance and correction to complete this thesis.
7. All the lecturers in Medan State University that has taught and guided the writer
8. Desi Yulian S.Pd that had given a lot of information and help the administration of the writer
9. Dra.Hj.Sri Irwati. M.Pd as the Headmaster of SMA Negeri 16 Medan, and Dra. Hirwati M.Si as chemistry teacher in SMA Negeri 16 Medan
10. My lovely grandma Nurbaiti, my lovely opung Siti Laniah, my sisters Intan and kak Dini and all my big families member for their support, love , pray, and attentionn.
11. My special thanks to my beloved bestiests Sheldudung (Ervi Luthfi Sheila Wannu Lubis)(That never change since bachelor till master, always keep Galau and Labil), Nia (Sri rahmania)(The best from senior high school till master, si orang aneh) Shantoso (Santhy Ardelina V.Br Pinem)(Now become a good wife, that always keep in touch even for having a log lunch for 5 hours and can't stop talking), Love you tiga kesayangan
12. For my partner in crime that always help me "Dian Aria Ningsih"
13. For my beloved friends in Chemistry Education Postgraduate Programme Class 2015, specially for Tari "si menye-menye", Bang Awi "abangda tertua dan terbijaksana", Yogi "si xxxxx", atika " si polos", kristina ' si raden", lia, eni and bang gaung "better to be called as bang guang", thank for your support and time for having many trip, fun, joyful hangout and "koro-koro" as always, also other all classmates that I can't mention one by one. Thanks for your support and help the writer, also for their helping, kindness, togetherness, attention and pray.

May Allah SWT, gives the blessed for your help and support that you had given. The writer hope this thesis can be useful and give many contributions for the readers' knowledge especially about the subject matter which is researched in this thesis.

Medan, March 2017

Nurul Wahidah Nasution

