

PREFACE

Praise and gratitude the author conveys to the presence of God Almighty, for His blessings and gifts the author was able to complete the preparation of this thesis properly. This thesis is entitled "Development of Higher Order Thinking Skill Oriented Learning Devices for the Problem-Based Learning Model on Quadrilaterals Topics ". This thesis was prepared to fulfill one of the requirements for obtaining a bachelor's degree in mathematics education, Faculty of Mathematics and Natural Sciences, Universitas Negeri Medan.

In the preparation of this thesis, of course, the author cannot be separated from the help and support of various parties. Therefore, on this occasion the author would like to express his gratitude to Mr. Mangaratua M. Simanjorang, M.Pd., Ph.D. as a thesis supervisor who has taken the time in the midst of his busy life to provide direction and guidance to the author from the beginning of proposal writing, research, to the end of writing this thesis. Thanks are also conveyed to Prof. Dr. Edi Syahputra, M.Pd., Mrs. Nurhasanah Siregar, M.Pd., and Mrs. Tiur Malasari Siregar, S.Pd., M.Si., as examiners who have provided suggestions and directions for the improvement of this thesis. Thanks are also conveyed to Mr. Dr. Kms. Muhammad Amin Fauzi, M.Pd., as academic supervisor during lectures. The author's gratitude goes to Mrs. Karnace Sirait, S.Pd as the Principal of SMP Negeri 4 Medan, Mrs. Karnace Sirait, S.Pd, as a mathematics teacher who helped the writer, as well as the employees of SMP Negeri 4 Medan who have received and helped the author well with his hospitality.

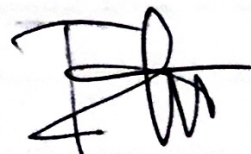
On this occasion the author would like to express his deepest gratitude to his beloved parents, my father Sarwoedy Simangunsong and my mother Suriaty Sitorus, who have given motivation, love, prayers, moral and material assistance and worked hard to educate and raise the author. with love and blessing as well as invaluable advice and sacrifices who have had a great influence on the success in the preparation of this thesis along with their dearest brothers Julius Anju Simangunsong and Agustinus Boy Dika Simangunsong and their big family who always encourage and motivate the author so that the author can complete the preparation of this thesis in order to earned a bachelor's degree (S1).

The authors also thank to Skuy Halal Bihalal, Alexander Sitinjak , S.Pd., Elkana Pakpahan , S.Pd., Erwin Syahputra, S.Pd., Mula Tua Simbolon, who always listen to the writer's complaints and provide continuous advice and support in the research process. The authors also thank OMK Mandala (Novi, Agustin, Lowis, Maria, Gilbert, Erick, Ferrerius) who always give encouragement, support and prayers. The author also thanks the Bilingual Mathematics Education 2018 friends who helped and motivated the author. And friends from KKN Medan Denai 2022 especially for the Keluarga Cemana who always support the author.

The author has made every effort to complete this thesis, but the author realizes that there are still many weaknesses in terms of content and grammar, for that the author expects suggestions and constructive criticism from readers for the perfection of this thesis. Hopefully this thesis can be useful for readers and can be a source of creative ideas to enrich knowledge in advancing education in this country.

Medan, 7 November 2024

Author,



Trisky Mangunsong

IDN. 4182111031