

ABSTRACT

The purpose of this study is to examine the application of learning process and portfolio assessment in the teaching and learning of Biology in a Bandung private school. The portfolio assessment was given in some learning activities to compliment the learning process based on Multiple Intelligence Theory approach for a lesson human circulatory system. This study starts with a test test by using MI test based on Howard Gardner's MI model to see their dominant intelligence. The result showed the percentage of top three ranks of intelligence are Bodily-Kinesthetic (73%), Visual-Spatial (68%), and Interpersonal (66%). The learning process is given by using some different multimedia and activities to engaged their learning style and intelligence such as mini experiment, short clip, and questions. The students was assessed during the learning activities for completed their portfolios. Post-test was given after the learning process for checking their understanding toward the lesson and N-gain obtained is 0,51 which is in the range of $0,7 > g > 0,3$ with interpretation of concept mastery in category medium. At the end of the study, it is reveal that the students who are learned by Multiple Intelligence instructional approach have more enhance to the lesson given. It's also found out that the students participated in the learning process which Multiple Intelligence approach was applied enjoyed the activities and have great fun.

Keywords: Learning process, portfolio assessment, Multiple Intelligence, human circulatory system, concept mastery

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FOREWORD

In the name of Allah SWT The Most Beneficent and The Most Merciful. All praises are to Allah SWT for all the blesses so that the writer can accomplish this thesis. In addition, may Peace and Salutation be given to Prophet Muhammad SAW who has taken all human being from the Darkness to the Lightness. Alhamdulillah, for His blessing, the author is given the ease to be able to complete this thesis by title “ **The Application of Learning Process and Portfolio Assessment Based on Multiple Intelligence to Enhance Students’ Mastery on Human Circulatory System**”. This research is for investigate the implementation of portfolio assessment to the enhance mastery of students on human circulatory system lesson after apply the learning process based on multiple intelligence approach in the class.

This thesis is one of the fruits of my labor at Universitas Pendidikan Indonesia over the past year. It goes without saying that it nontheless took some pains to eventually round off this thesis. Hopefully this research can become one small part to help the development of preference in the field of education so it can help to make education in Indonesia more better.

Finally, I realize that this thesis is so far from being outstanding. Therefore, I invite you as the readers to give comments and suggestions from those who are deeply concerned in such topic. However, I expect that this thesis wil give worthwhile contributios to all readers.

Bandung, August 2018

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