

CHAPTER V

CONCLUSION AND RECOMENDATION

Based on the objectives, results, and discussion previously described to analyze the effect of mobile homework on students' learning outcomes, homework quality, and attitudes toward mobile, the conclusions are drawn as follows:

- a. Mobile homework significantly affect grade eleven mathematics and science program students' learning outcomes for Digestive and Respiratory System Topics in SMA N 1, SMA N 2, and SMA N 4 Medan, Academic Year 2014/2015.
- b. Mobile homework significantly affect grade eleven mathematics and science program students' ability in answering C3 (Application) and C4 (Analysis-Synthesis).
- c. Mobile homework significantly affect grade eleven mathematics and science program students' ability in answering C5 (Evaluation) and C6 (Creation).
- d. Mobile homework significantly affect grade eleven mathematics and science program students' weekly homework average scores for Digestive and Respiratory System Topics in SMA N 1, SMA N 2, and SMA N 4 Medan, Academic Year 2014/2015.
- e. Mobile homework significantly affect grade eleven mathematics and science program students' homework quality average scores for Digestive and Respiratory System Topics in SMA N 1, SMA N 2, and SMA N 4 Medan, Academic Year 2014/2015.
- f. There was a moderate, positive correlation between homework scores and learning outcomes.
- g. There was a moderate, positive correlation between good homework quality and better learning outcomes.
- h. In general, students of the experimental group have positive perception towards mobile learning in which they also showed to have quite an

understanding regarding mobile learning weakness when mobile device were used to aid learning

- i. Students who were assigned with mobile homework have equal rate of homework completion compare with those who were given with paper-based homework, in which the difference among the rate of homework submission were not significantly different
- j. The frequency and total percentage of both experimental and control group with regards to their gender, showed that male student in general have lower complete mobile homework submission compared to female students.

5.2 Recommendation

In line with conclusion drawn, it is suggested that Biology teacher to apply mobile homework in the attempts of improving students' homework experiences. Teacher should actively assign students to engage in learning activities by aiding learning with technological sources. Evaluating students' homework completion and submission could be one source of information for developing understanding on Biological topics achievement. The result of this research can be a consideration for Biology teacher to develop an outside classroom activity which is in line to the improvement of students' learning. The result of this study can be used as reference on digestive and respiratory system topic being taught in Grade Eleven. Further study is also suggested to be carried regarding the implementation of mobile learning with larger number of participant and new technological approach that could support students' better learning experience.