CHAPTER V
CONCLUSION AND RECOMMENDATION

5.1 Conclusion

Based on the discussions, result and analysis of previous chapters, the researcher summed up several conclusions. First, the implementation of active learning based science block in daily classes in learning motion and force can improve students' academic achievement. It can be proven by N-gain result that shows there is medium improvement between the pre-test and post-test of the treatment. The average N-gain of the experiment is 0.35. The result indicates that the topic of motion and force is understood well enough for an improvement by using active learning based science block. In addition, from the hypothesis test, it is proven that the hypothesis H_1 is accepted, meaning that there is significant difference between the pre-test and post-test. This means, there is a significant improvement in students' academic achievement through the application of active learning based science block. There is a significant difference in gender on academic achievement which resulted in higher academic achievement of female students compared to male students.

Secondly, the profile of students' science process skill in all aspect is categorized as inadequate except that of measuring skill. There is a gender difference on students' science process skill that indicates female students have higher science process skill compared to male students, both in average score and in each aspect of science process skill.

5.2 Recommendation

Based on the findings of this research, there are several recommendations that can be used as future references for other researches. The first recommendation is that it is necessary to implement the treatment for a long time before seeing a much more pronounced result, as it takes time for students to get used to treatment, it is important to give the student some

time to adapt to the new treatment and activities that the researcher wants them to get used to and becomes an intrinsic habit that they do automatically.

The second recommendation would be for the teacher to understand thoroughly on what the students need and what kind of instructions need to be delivered to the students to apply the active learning treatment in the student and therefore could receive better data and result.

The third recommendation is to allocate more time to apply science block as it is true that the implementation takes time and to not include too much activities when the time is not sufficient to include the planned activity included in the science block.

The fourth recommendation is to investigate the application of active learning based science block itself towards the improvement of students' science process skill.