

CHAPTER V

CONCLUSIONS AND RECOMMENDATIONS

5.1. Conclusions

Based on the results of research and discussion that has been described above, so the conclusions are:

1. The implementation of guided inquiry on human respiratory system was conducted in four cycles. Each cycle consists of planning, action, observing, and reflection phase. The core activity in this research was the students determined the hypothesis thus prove it through experiment. In the first cycle the student was discussed about the mechanism of chest and abdominal breathing. In second cycle, the students focus on the lung volume and continued in third cycle by the factors affecting the respiration rate. In the last cycle the students discussed about the effect of cigarettes to lung healthiness. The datum was collected by using achievement test, observation by the observer, questionnaire, and worksheet.
2. The implementation of guided inquiry of human respiratory system improved students' motivation at class XI IPA 6 SMA Negeri 1 Tebing Tinggi academic year 2011/2012 with category high (average score 4.03).
3. The implementation of guided inquiry improved students' learning outcomes at class XI IPA 6 SMA Negeri 1 Tebing Tinggi academic year 2011/2012 with the classical completeness 94.12% in fourth cycle and average 82.05.
4. The implementation of guided inquiry improved students' learning activity at class XI IPA 6 SMA Negeri 1 Tebing Tinggi academic year 2011/2012 with activity category very active, active, and fair with percentage 97.06% in fourth cycle.

5.2. Recommendations

Recommendations after conducted this research are:

1. The teacher should set specific learning instruments that can be done outside of class time to overcome the perceived lack of time allocation in implementing guided inquiry models.
2. The teacher need to be actively provide guidance to the student in the learning process and try to stimulates the student to develop simple procedure by their own, in which students will be more involved in the process of learning by doing their own experiments to prove their hypothesis or prediction.
3. Further research about the implementation of guided inquiry in different topic need to be done.

