

CHAPTER V

CONCLUSION AND SUGGESTION

5.1 Conclusion

The conclusion after the research was conducted were:

1. The standardization that was conducted by two kinds respondents, those are chemistry lecturer who actively teach in international class students in state University of Medan and chemistry teacher in each school who actively teach in international and bilingual class. They assessed the chemistry module with the value 3.49 means that the sequence of chemistry materials in the module in order the topic of thermochemistry topic is easy to be learned and it meet the curriculum education unit can be arranged.
2. The analyzing of some chemistry book grade XI for bilingual students, especially for thermochemistry topic are not fully meet the standards competency and basic competency feasibility of content, design presentation and feasibility of language, with book code A is 60%, Code B is 56%, code C is 64%, and then code D is 60%. It caused by those book are not communicative (understandable language), materials are explain briefly, some of them did't present the introduction, and something that make readers interested.
3. Chemistry teacher who taught thermochemistry actively have positive perception think that learning module have fulfill the standard categorize with the average of questionnaire which assessed by chemistry teacher 3.47. It can help them to prepare their learning sources, and it used as learning media, so the learning activities are more active, and students also prepare themselves at home by learning module.

4. Learning module is effective to increase students achievement in HG but not in LG. it can be seen from the average value of post test 1 by using module is higher than chemistry book. The students achievement in post test 1 using module for HG (75.68 ± 6.30) is higher than control class (76.83 ± 6.13).
5. The resistance of learning module obtained by doing post test II have the percentage of developed learning module 96.10 is higher that with the chemistry text book 94.05. The developed and standardization chemistry learning module is effective in increasing the students achievements on chemistry.

5.2 Suggestion

Based on the result of research that has been done, the authors suggest:

- a) Before using the chemistry book or chemistry learning module, teacher should check the overall of the book, especially the material content, its language, its presentation design layout, so the teacher should select it before consumed by students.
- b) The standard of senior high school chemistry module on the teaching of Thermochemistry recommended for use in teaching and learning process because its has been standards.
- c) Chemistry teacher should master all contents in chemistry module and master the way of using module before consumed by students, and students should bring it while teaching and learning process.
- d) For the next researcher it is better using observation sheet for students and teacher as authentic data while teaching and learning process.