CHAPTER V
CONCLUSIONS AND SUGGESTIONS

5.1. Conclusions

Based on the results, the conclusions that can be drawn are:

1. The results of the needs analysis at Madrasah Aliyah Persiapan Negeri 4 Medan show they are needed teaching material in the form of Leaning Cycle 7-E oriented student worksheet on reaction rate material and as many as 100% of students agree to develop teaching materials in the form of Student Worksheets Oriented Learning Cycle 7-E in Reaction Rate Material.
2. The design of student worksheet with the help of Canva application and developed into hard copy student worksheets.
3. The feasibility level of students' worksheets oriented Learning Cycle 7-E on reaction rate material based on the assessment of the National Education Standards Board (BSNP) resulted in an average percentage of 96.6% with very high criteria results and valid criteria for use in the learning process.
4. Based on the responses of high school students in class XI MIPA Madrasah Aliyah Persiapan Negeri 4 Medan, the criteria are very attractive with a percentage of 90%. This shows that the student worksheet developed is very interesting for students, so it can be used as one of the supporting teaching materials in chemistry learning.

5.2. Suggestions

Researcher provide the following suggestions:

1. Researcher suggest to chemistry teachers to use Leaning Cycle 7-E oriented student worksheet on reaction rates material as teaching materials or learning media because this student worksheet has been declared very good and feasible to use in chemistry learning, especially for reaction rates material.

2. The development of Leaning Cycle 7-E oriented student worksheet on reaction rate material needs to be carried out on other materials that are adapted to the needs of students and the conditions of each school so that learning activities can take place effectively and enjoyable as well as increasing students' understanding of concepts, especially the concept of chemical materials.
3. The researcher suggested to other researchers that Leaning Cycle 7-E oriented student worksheet on reaction rate material should be tried out in large-scale learning to determine the benefits and weaknesses of the developed teaching materials.