

## CHAPTER V CONCLUSION AND SUGGESTION

### 5.1 Conclusion

Based on the results of research and data analysis it can be concluded that:

1. In the data from the pretest and posttest results, it can be seen that there is an increase in learning outcomes after the teaching treatment of the reaction rate material using 3D Pageflip Professional learning media. From these data, the average student score has increased from the pretest score, namely 73.8 to 85. Then the number of students who completed from 26 students to 33 students with a percentage of 97%. From the data table above, it can be concluded that 3D Pageflip Professional learning media on reaction rate material has a very good effect on improving student learning outcomes. Test the hypothesis using the calculation of the right-side t-test. From the table, it can be seen that  $t_{count} > t_{table} = 6.1 > 2.38$ , then  $H_0$  is rejected, or  $H_a$  is accepted. The hypothesis test was also carried out using the paired sample t-test on SPSS version 25. From the results of the paired sample t-test hypothesis test, it can be seen that the significant value of 2-tailed is 0.000 where the value is  $0.000 < 0.05$ , so  $H_0$  is rejected, and  $H_a$  is accepted. So it can be seen that there is an influence of the application of e-module 3D Pageflip Professional learning media on students learning outcomes in reaction rate material at MAN 1 Medan.
2. Four aspects are assessed in student responses to 3D Pageflip Professional learning media that are developed, including existence, function, appearance, and the influence of 3D Pageflip Professional learning media on reaction rate material. The first assessed aspect obtains a percentage of 92% (strongly agree/very feasible) so that it can be concluded that there is no need for revisions to these indicators. The second assessed aspect obtained a percentage of 90.6% (strongly agree/very appropriate) so that it can be concluded that there was no need for revisions to these indicators. The third assessed aspect obtained a percentage of 90% (strongly agree/very appropriate) so that it can be concluded that there is no need for revisions to these indicators. In the fourth assessed

aspect, 87.6% (strongly agree/very appropriate) is obtained, meaning there is no revision to the indicator.

## 5.2 Suggestion

Based on the results of the research and discussion that has been done, the researchers suggest the following:

1. 3D Pageflip Professional learning media on reaction rate material is suggested to other researchers to use learning media to measure student motivation, ability to do a practicum, and other variables in future research.
2. It is hoped that the 3D Pageflip Professional learning media on the reaction rate material that has been developed is used by teachers and students as its functions as an engaging alternative learning media in learning reaction rate material.
3. It is hoped that further researchers can develop a better 3D Pageflip Professional learning media with the same or different materials and grade levels.

