

CHAPTER V

CONCLUSION AND SUGGESTION

5.1. Conclusion

The research that has been carried out at MAN 2 Model Medan results in conclusions drawn from data analysis and hypothesis testing as follows :

1. The problem solving ability of students using the TPACK-based differentiated inquiry learning model is higher than using the conventional learning model.
2. The problem solving ability in students who have high motivation is higher than students who have low motivation. which is evidenced by $t_{count} > t_{table}$
3. There is an effect of TPACK-based differentiated inquiry learning model and conventional learning on students' motivation and problem solving skills on the subject matter of light waves. Where the value of $F_{count}(AB) > F_{table}$ with a sig. < 0.05

5.2. Suggestion

Based on the research results and conclusions obtained, the authors propose the following suggestions :

Researchers who want to examine further related to the TPACK-based differentiated inquiry learning model must be able to master the class and manage time effectively so that the application of the learning model can run smoothly and efficiently, further research should be carried out that is more in-depth on various topics related to the subject matter so that it can be used as a way to improve the quality of education, especially in physics lessons. in addition, it can also use platforms such as Moodle or Google Classroom which can be used to facilitate further discussion and continuous assessment during the learning process.