

## CHAPTER V

### CONCLUSION AND SUGGESTION

#### 5.1. Conclusions

Based on the analysis result of research, it was concluded:

1. There was significant effect difference of jigsaw cooperative learning model and direct instruction learning model for cognitive domain on student's learning outcomes in heat and temperature. Jigsaw cooperative learning model was better than direct instruction learning model.
2. There were no significant effect difference of jigsaw cooperative learning model and direct instruction learning model for affective and psychomotor domains on student's learning outcomes in heat and temperature. Both jigsaw cooperative learning model and direct instruction learning model were included in good category.
3. The effectiveness of jigsaw cooperative learning model was high than direct instruction learning model for cognitive domain on student's learning outcomes in heat and temperature. Furthermore, jigsaw cooperative learning model was more effective than direct instruction learning model on student's learning outcomes. It was obtained by fulfilling the three requirements of the learning effectiveness, namely index sensitivity of instrument, learning mastery and activities observation result.

#### 5.2. Suggestions

Based on the results and conclusions in this research, there were some suggestions, namely:

1. Researcher who want to conduct research using Jigsaw cooperative learning model is suggested that better monitor the activities of students in the group by observing and guiding students for working in groups by asking questions to each student about what he/she had done in group and constraints faced by students during discussion

2. For further researcher is suggested to be wise in the management of stage in jigsaw cooperative learning model by giving attention to the steps in learning to achieve the improvement of learning outcomes because some stages can be more consumed time than targeted
3. For further researcher is suggested to be more efficient in time
4. For further researcher is suggested to be more creative in managing the classroom
5. For further researcher who want to find out about affective and psychomotor domains is suggested to find out the more appropriate indicators that will be used to assest student's learning outcomes in order obtain the appropriate result accurately.
6. For further researcher is suggested to find out the other requirements of the effectiveness learning in order obtain more accurate result