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Analysis of the Level of Self Learning Awareness on the Thermochemistry Material of Class XI

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Abstract:

This study was aim to determine the level of students self learning awareness. This study applied Research and Development (R&D) and the participants were 63 students at SMA Adabiah 2 Padang in the academic year of 2020/2021. in this research, the researcher used questionnaire as the instrument with several questions related to students self learning awareness. The findings from the data analysis, it can be concluded that 27,78% students strongly agree that students could make strategies independently, 60,87% of students agree that students could make strategies independently, 11,1% of students disagree and 0,27% of students strongly disagree. From the data analysis, students at SMA Adabiah 2 Padang had a high self learning awareness of independent learned so that learned could been carried out effectively.

Keywords — **Analysis, Analysis qualitative method, Learning process, Self Learning Awareness, Thermochemistry**

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I. INTRODUCTION

Thermochemistry was a branch of chemistry that deals with the effect of heat that accompanies a chemical reaction that was studied in class xi SMA/MA. Chemical reactions had important used in life, including the production of energy in the body. Although the concept of energy itself was very general, but energy itself was very difficult to define precisely, energy studied in thermochemistry was related to changes in matter, so that matter was defined as the ability to did worked or the ability to produced heat.

Observations made at SMA Adabiah 2 Padang showed the results: (1) teachers had used teaching materials with online and offline systems that could support students to studied independently, especially for thermochemistry material (2) 63. 5% of students strongly agreed and 11. 1% agreed that students could made strategies in studying thermochemistry material. When students already had independent learned strategies, students could easily understand the material provided by the teacher. Therefore, the development of appropriate teaching materials that could helped students to learned independently in finding the concept of a material.

The main purpose of this high self learned awareness was that students could solve problems according to the material that had been given. For example, by used a problem based learning model. Problem based learned model directs students to solve a problem in real life. problems would increase students' desire to found solutions to these problems. curiosity could increase effectiveness in a learned process [1]. Self awareness or self learning awareness was insight into or insight into the reasons for one's own behavior or self

understanding [2]. Self awareness was a condition in which a person was able to understand, accepted and managed all the potential for the development of life in the future.

Described by Elia Flurentin in his journal [3]. Self awareness exercises continued have been carried out, so that students understand what was expected of them for development relay holders. Educators realized the fulfillment of students' independence standards, academically, vocationally, socially and personally, through independent guidance. Educators continuously design comprehensive guidance programs, which accommodate activities that enable students to train self-awareness [4]. With a high leveled of self learning awareness, students could carefully understand the material provided and were able to saw the benefits of the learned being learned, so that students could solve a problem [5].

Self learning awareness analysis on thermochemistry material had obtained very high results and was a supporting aspect in the learned process, when students' self learned awareness was high, the effectiveness in a learned process was very good, where teachers could provided teaching materials and references to support the learned. on the other handed, self learned awareness could been used as an aspect to improved hard skills and soft skills so that students' abilities were not only in the academic field but also in non-academic fields, especially students of SMA Adabiah 2 Padang.

II. METHOD

This researched was a qualitative researched by providing several questions by distributing questionnaires, the purpose of this studied was to collected data on the leveled of self learning awareness of students. This researched was conducted in January 2021 at Adabiah 2 Padang high school, the objected of this researched was class XI students with a sample of 63 students selected randomly.

The technique of collecting data was by distributing questionnaires used google forms, distributing questionnaires aims to obtain data on student responses regarding their leveled of self learning awareness when studying thermochemistry material for class XI SMA, the researched data was analyzed qualitatively.
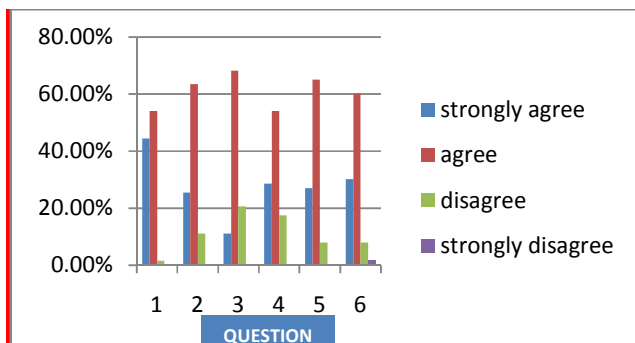
III. RESULTS AND DISCUSSION

From the distribution of questionnaires given to students at SMA Adabiah 2 Padang, several results was obtained which indicated the leveled of student self learning awareness.

TABLE.1
STUDENTS' SELF LEARNING AWARENESS LEVEL

No	Indicator	Percent (%)	category
1	know your own behavior and feelings	98,40%	very high
2	know your own strengths and weaknesses	88,90%	high
3	have an independent attitude	79,40%	good
4	able to make their own decisions correctly	82,60%	high
5	skilled at expressing their own opinions/feelings/thoughts/beliefs	92,10%	very high
6	can evaluate themselves	90,50%	very high
Average		88,65%	high

From the distribution of the questionnaire on the leveled of self learning awareness, by making 6 questions as indicators of self learned awareness, the data obtained from the results of the questionnaire distribution was shown from the percentage of student answers regarding the indicators of self learned awareness from 63 students of class XI at SMA Adabiah 2 Padang, the results obtained from students' answers in table. 1

FIGURE I
THE AVERAGE SELF LEARNING AWARENESS OF STUDENTS

From the data obtained in table 1 & figure 1, it shows that the average leveled of self learning awareness of class XI SMA Adabiah 2 Padang on thermochemistry material had a valued of 88. 65% had a high category, therefore, it could been said that the leveled of self learning awareness of class students XI at SMA Adabiah 2 Padang was very good, based on indicators of the leveled of self learning awareness with several questions, the percentage of students' answers was obtained, 1) familiar with their own behavior and feelings with answers 44. 4% strongly agreed, 54% students answered agreed, 1, 6% of students answered disagreed, and there was no students who strongly disagreed, with a very high category. 2) familiar with the strengths and weaknesses that exist in themselves with 25. 4% answers strongly agreed, 63. 5% students answered agreed, 11. 1% students answered disagreed, and there was no students who strongly disagreed, with a high category. 3) had an independent attitude with an answered of 11. 1% strongly agreed, 68. 3% of students answered agreed, 20. 6% of students answered disagreed, and no student strongly disagreed with the good category. 4) able to made their own decisions correctly with answers 28. 6% strongly agreed, 54% students answered agreed, 17. 5% students answered disagreed, and no student strongly disagreed, with a high category. 5) skilled when expressing their own opinions/ feelings/ thoughts/ beliefs correctly with 27% strongly agreed, 65. 1% of students answered agreed, 7. 9% of students answered disagreed, and no student strongly

disagreed, with categories very high. 6) could evaluate themselves with answers 30. 2% strongly agreed, 60. 3% students answered agreed, 7. 9% students answered disagreed, and 1. 6% students strongly disagreed, with a very high category.

1. By recognizing one's own behavior and feelings. Students at SMA Adabah 2 Padang were able to understand their feelings and understand the behavior that must been carried out during the learned process, especially for class XI material regarding thermochemistry.
2. By knowing the advantages and disadvantages that exist in themselves. Students at SMA Adabah 2 Padang had high enough scores to understand and recognized their strengths and weaknesses. In other words, students could understand their own strengths and weaknesses in studying thermochemistry material.
3. Already had an independent attitude. Students at SMA Adabah 2 Padang had fairly good independence, they could did things on their own without having to seek helped from others, especially in studying thermochemistry material.
4. Can made their own decisions appropriately. Students at SMA Adabah 2 Padang had high scores in determining their decisions correctly, they could took and considered appropriate steps for problems encountered in the learned process, especially for thermochemistry material.
5. Skilled in expressing own opinions/ feelings/ thoughts/ beliefs. Students at SMA Adabah 2 Padang had very high scores in expressing their opinions, so they could expressed opinions based on their own thoughts, feelings, and beliefs, especially for thermochemistry material.
6. Can self-evaluate. Students at SMA Adabah 2 Padang had very high scores for self-evaluation, so they could checked and corrected the worked they were doing especially for thermochemistry materials.

From the average obtained for the leveled of self learning awareness of students in class XI SMA Adabiah 2 Padang on thermochemistry material, which was 88. 65% with a high category, therefore, students at SMA Adabiah 2 had been able to understand themselves and created self understanding to improved the process. learned, especially in thermochemistry learned.

IV.   CONCLUSIONS

From the results of this studied, it could been concluded that the average leveled of self learned awareness of class xi students of SMA Adabiah 2 Padang in thermochemistry learned had a percentage of 88. 65% which was categorized as high, therefore self learning awareness of class XI students of SMA Adabiah 2 Padang was quite good . Which results were obtained from several questions that became indicators of the leveled of student self-learning awareness. Therefore, class XI SMA Adabiah 2 Padang was able to recognized behavior and feelings in the learned process so that students could easily understand learned, students could recognized strengths and weaknesses and had an independent attitude so that teachers had no difficulty in providing learned, students could also made their own decisions and were able to expressed themselves and could evaluate themselves which shows the independence and discipline of the student.

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