

CHAPTER I INTRODUCTION

1.1. Background

Educational problem that is often faced at the school is the low of student's learning outcomes. The main problem in learning in formal education (school) today is the low absorptive capacity of learners. This is evident from the low average student learning outcomes. The learning process until today still provides the teacher dominance and not provides access for students to develop independently through discovery in thinking process (Trianto, 2009).

Student achievement in school is often indicated with the problem of learning from the students understand the material. This indication is possible because of factors of student learning that are less effective, even the students themselves do not feel motivated to follow learning in the classroom. As a result, students are less or even not understand the difficult material that given by the teacher (Daryanto, 2010).

According to Khanifatul (2013), instructional media can be used distribute learning materials to stimulate attention, interests, thoughts, and feelings of students achieve the learning objectives. Learning media requires tools for the presentation, but the most important is the message or the information carried by the media.

According to Sudjana (2006), in learning activity process, assessment for learning outcomes often ignored. Usually, student learning outcomes marked in score or value from the test. Commonly, learning outcomes can be seen from the test result that given to student. From the result can said the student learning outcomes is good in high score and low in low score. To get learning outcomes well, teacher must arrange the good lesson plan and possible student to do the learning activity. That's the reason to see the effect of learning outcomes in this research.

Human digestive system is the one of system that needs some images to explain the process that occur in the system. Human digestive system is the topic

that cannot explain only by sentences. The organs in human digestive system also need the images to explain the structure briefly. The topic of human digestive system is learned in grade XI senior high school. That's the reason to do research in human digestive system and the class XI is chosen as research object in this research.

One alternative teaching material for self-study students are student worksheet. Teachers much helped by the worksheet and students in learning active in the class. However, there are worksheet that far yet includes many activities that involve students and the lack of challenging activities for students. The use of worksheets in learning is expected to contribute positively and time effectively to the achievement of student learning outcomes. Worksheets can be adapted to the needs of students in the class, making it easier for students to understand the biological materials and help students in developing potential. Teaching materials that can attract students, it is expected to enhance the students' understanding and mastery of biological materials.

The classical teaching that uses the same teaching and learning for all students would not be appropriate for the needs and personality of each student. Therefore, it is necessary to find teaching system that opens the possibility of providing instruction for a large number of students and in addition it gives an opportunity for individual instruction. Among the variety of individual teaching methods, teaching by worksheet is the most recent method that combines the advantages of the various individual instructions such as specific instructional objectives, learning according to their fastness, as well as a lot of feedback. Thus the presence of the student worksheet is important in accessing the learning motivation. Worksheet that the author designed to support learning motivation is image-based student worksheet.

The application of image-based student worksheets as chosen in teaching biology for human digestive system topic because worksheets are commonly found in textbooks or other biology supporters, often just a series of questions and without equipped with an image. Image -based student worksheet is designed as a guide to visualize the concepts, guiding students to identify problems, test

concepts. Student worksheet contains images based on drawings and descriptions are to be found solving the problems associated with real events in the community. With image-based student worksheet is expected to motivate students to learn, to overcome learning difficulties, provide enough practice, and bring biology to the environment so as to change the paradigm of biology students from the abstract into the concrete, theoretical biology becomes applicable, and science Biology is hard to be easy, as well as biology lose its relevance to the real world into the contextual biology. Based on the results of Teaching Practice Program (*Program Pengajaran Lapangan / PPL*) in SMA Negeri 1 Sidikalang in August until November 2013, it was to used that the learning outcome for grade XI students in this school was still low. This fact is closely related to various factors including the success of learning which covers how the concepts of biology are taught to the students by the teachers. Based on interview with biology teacher in the school, the teacher tends to use the lecture method in teaching and learning activities. The tendency use of the lecture method may lead to less active students in learning biology. Many students' hearers only without any mutual interaction with the teacher, thus making the learning process was boring. Most students are not interested in learning biology because of the monotonous condition. Some students did not ask about the material that is not understood. The source of learning materials that used of school is less attractive students to learn biology. That's the reason to do this research in SMA N 1 Sidikalang.

From the description above, researchers interested in conducting research on **“The Effect of Image Based Student Worksheet in Learning Outcome at Human Digestive System Class XI Science of SMA N 1 Sidikalang Academic Year 2013/2014”**.

1.2. Problem Identification

Relation to the background above, so the problem identification in the research is:

1. Lack of students in understanding learning materials.
2. Student learning factor is less effective.

3. Students do not feel motivated to follow learning in the classroom.

1.3. Problem Limitation

Researcher limits the problem that will research:

1. The developing of student worksheet as the instructional learning resource in Human Digestive System topic for grade XI science program SMA Negeri 1 Sidikalang Academic Year 2013/2014.
2. The effect of Image-Based Student Worksheet to the learning outcome of student for grade XI Science SMA Negeri 1 Sidikalang 2013/2014.

1.4. Research Questions

In this study, the research questions are as follows:

1. How to develop the image-based student worksheet as the new additional learning resource media in the Human Digestive System topic for grade XI science program in SMA Negeri 1 Sidikalang Academic Year 2013/2014?
2. Is the Image-Based Student Worksheet will effect the learning outcome of student in grade XI science SMA Negeri 1 Sidikalang 2013/2014?

1.5. Research Objectives

Objective in this research is:

1. To develop worksheet as the new additional learning resource media in the Human Digestive System topic for XI grade students in SMA Negeri 1 Sidikalang Academic Year 2013/2014.
2. To know the effect of Image Based Student Worksheet to the learning outcome of student for XI grade students in SMA Negeri 1 Sidikalang 2013/2014.

1.6. Research Benefit

Benefit that want reached in this research is:

1. For teachers, they can use student worksheet on teaching and learning process in the classroom.
2. For students, they can mastery the concepts in Human Digestive System topic easier and also to increase the quality of biology learning materials.
3. For next researcher, can used as mind input material and developing science.