



## LEARNING MOTIVATION PROFILE OF GRADE XI SCIENCE STUDENTS

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**ABSTRACT:** Learning motivation is an important factor in improving the quality of student learning. Therefore, this study aims to identify the learning motivation profile of grade XI science students in MA Alliful Ikhwan SAA. By knowing the learning motivation profile of biology students, efforts can be made to improve student learning motivation and the quality of biology learning at school. This research used a descriptive method with a quantitative approach. The research sample consisted of 72 students and 1 teacher in grade XI IPA 1, XI IPA 2, and XI IPA 3 at MA Alliful Ikhwan SAA. The instrument used was a learning motivation questionnaire that had been adapted from existing instruments. The data obtained were analyzed using descriptive statistical techniques. The results showed that the learning motivation of grade XI IPA 1 students reached 75.44%, with a strong motivation category. Meanwhile, grade XI IPA 2 and IPA 3 students had learning motivation results of 65.36% and 54.21%, respectively, with a high criteria. The overall average learning motivation results of grade XI IPA students reached 65.00% with a moderate category. In addition, the comparison of questionnaires submitted by the teacher showed that 72% of students had a high criteria in learning motivation. The implications of this research can provide benefits for biology teachers at MA Alliful Ikhwan SAA in improving student learning motivation and the quality of biology learning at school. Furthermore, this research can also be used as a reference for further research on student learning motivation in the field of biology.

**Keywords:** Learning Motivation, Learning Outcomes, Biology.



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### INTRODUCTION

Development globalization has give impact wide, include in the field of education (Listiana, 2021). Because that is, education become attention important in increase quality source power human. Learning process carried out by teachers and students in atmosphere good science, good in school nor outside school. The goal is for disseminate information to audiences crowded in a manner synchronous and necessary news the. Motivation role important in learning, encouraging student for do or choose direction deed going to desired goal achieved as well as selecting the deed to be done. In build quality human.

Biology as branch Knowledge Nature (IPA) has role important. Because it is necessary teacher accuracy in determine art management proper learning, especially in motivating participant study often low in learning, because it is necessary exists acceleration on learning with expand communication and optimization technology information web based for increase quality learning (Khairani et al., 2019).





Motivation study is power push what you can push activity learn, vouch continuity learn, as well give direction to activity study for reach objective learn. A number of indicator motivation study students, like duration, frequency, persistence, fortitude, tenacity, ability face obstacles, sacrifices, levels aspirations, qualifications achievement, and direction attitude towards activity targets. Motivation study play role important in guard continuity learn and give direction to activity learn, so objective study can achieved (Pramitasari, 2011).

Learning is involving activities somebody in business obtain knowledge, skills, as well mark positive with utilise various source (Utami et al., 2017). In learning, motivation become factor important for push participant educate for choose direction deed going to desired destination as well as selecting necessary action done. Suitability activity study with objective learning, optimization intellectual participant learn, system teaching, as well the effectiveness of the learning process will influence success activity study participant educate, because in addition, adequate facilities and infrastructure also hold role important in smoothness learning (Santosa & Yulianti, 2020).

Motivation study is power motivating mover participant educate for do activity learn and acquire results learn what you want , fine from in not from outside himself (Yustini et al., 2021). The more appropriate the motivation given, the more great success in the learning process. Study results biology is indicator success somebody in learn field studies biology, which is influenced by factors interest, awareness, ability, and skills intellectual in aspect cognitive, like skills counting and mastery material biology (Hastuti et al., 2019).

In context education, motivation own very role important for reach objective optimal learning. Lack of motivation or motivation learn which is not adequate can hinder achievement objective learning (Siburian et al., 2022; Siregar et al., 2021). A number of study show low motivation study biology student caused: 1) lack interest to eye lesson Biology, some student not enough interested with the topics taught in Biology and feel that the material being taught difficult for understood. This low impact motivation they for learn and understand lesson Biology (Mardiyanti et al., 2022; Sudarsih, 2021); 2) material lesson presented biology not relevant with life daily they so that they not feel interested or motivated for study more in; 3) method teaching too monotone or only focuses on learning theory without notice the application in life everyday; 4) feeling anxious and afraid that they no capable for understand or control material Biology, so they lost motivation for learning; and 5) environment learn which is not support and not give motivation can influence motivation student for study biology (Devi et al., 2021; Mayarni et al., 2021). Because that's important for the parties involved in the learning process, such as teachers, parents, and participants educate myself, for understand importance motivation and effort give right motivation to use support success in a learner. Objective study this is for analyze profile motivation study biology MA Alliful Ikhwan SAA student.

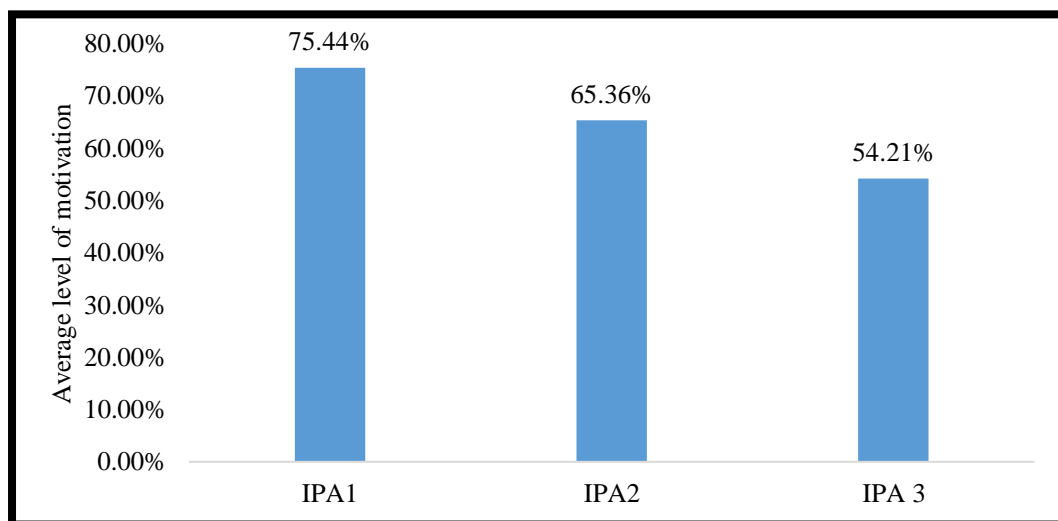


## METHOD

Research "Learning Motivation Profile of Grade XI Science Students" was conducted with use method study descriptive quantitative. Method this used for describe characteristics motivation study student in eye lesson biology in class XI IPA (Hani & Suwarma, 2018; Hunaepi et al., 2019). Object in study this is 72 students from class XI IPA 1, XI IPA 2, and XI IPA 3 MA Alliful Ikhwan SAA, and one eye teacher lesson Biology. Profile motivation study biology be measured use instrument form questionnaire motivation learning developed by researchers with indicator as following: 1) exists desire for successful; 2) happy work independent; 3) tenacious face difficulty; 4) show interest; and 5) happy seek and solve answer questions biology. Data analysis technique used in study this is statistics descriptive, that is statistics used for analyze data with method describe or describe the data that has been collected as exists without make valid conclusion for general or generalization.

## RESULTS AND DISCUSSION

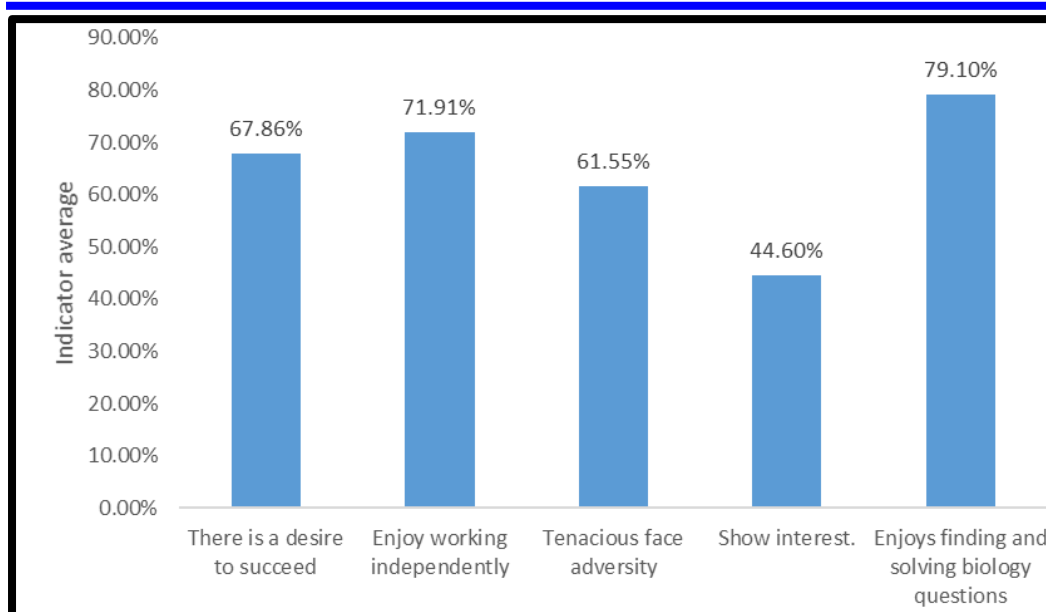
Overall, the motivation scores for studying biology of 72 MA Alliful Ikhwan SAA students can be depicted in the graph in Figure 1. This is based on the results of calculations and data analysis.



**Figure 1. Graph of Average Scores Motivation Study Biology Student Class XI IPA.**

Graphic above show exists difference in average level motivation study students in class XI IPA. Class XI IPA 1 achieved an average of 75.44% with category motivation strong, meanwhile class XI IPA 2 achieved an average of 65.36% with category motivation moderate, and class XI IPA 3 achieved an average of 54.21% with category medium. Kindly whole, profile motivation study biology student class XI IPA achieved an average of 65% with category medium.

Besides presenting the result data analysis by class and classical data analysis, the researcher also presents results analysis per indicator motivation study biology. Analysis results the served in form Figure 2 as following.



**Figure 2. Graph of Analysis Results Motivation Study Biology per Indicator.**

Student hold very role important in face work home (tasks given by the teacher). They must active in do work the house given by the teacher in order to be able to do it with really. After data collection done, got results index perseverance in facing PR for class XI IPA 1 with an average of 70.20%, class XI IPA 2 with an average of 60.19%, and class XI IPA 3 with an average of 73.20%. With thus, the average value of third class is 67.86% with criteria tall in desire for it worked. Seen that diligent student do work home given by teachers at school, though amount work given house heavy, they will do it with very diligent. This show that motivation own influence big to success participant educate in reach optimal results. On the other hand, low motivation participant educate in study will low impact achieved results (Afiif & Makkulau, 2017).

For can work independent with ok, students need have trust high self to make it easy in the learning process and can answer question without easy influenced by his friends. After the data is collected, it is found that indicator work independent student class XI IPA 1 reached 86.24% with criteria high. This proven with he persisted student in work independent and habitual they for study alone, especially at home. However, moment this there is complaint from teachers and parents student related low motivation learning and abilities cognitive students in various level education and almost all field study. A number of results studies also show that motivation influence performance study (Adnan et al., 2019).

Student need own skills in face difficulty learn to get face challenge in the learning process provided by the teacher. After information collected and the results found, indicator resilience in face difficulty study for class XI IPA 1 reached 80.25%, which is very standard high. Class XI IPA 2 reached appropriate standards with a provisional 75.60%. Student class XI IPA 3 also has high standards namely 81.86%. So that overall average value is 61.55%. This can proven with exists effort student for keep going try overcome trouble. Student can request help friend and



answer question because they very serious in the learning process and easy in handle question class. In the learning process, educators must create atmosphere that gives chance for every participant educate for dialogue and ask various related matters with development themselves and their potential (Harefa et al., 2022).

Indicator interest study must improved so that students no disturbed in the learning process. After data analysis, obtained results indicator show interest class XI IPA 1 of 57.55% with criteria high, meanwhile class XI IPA 2 of 71.88% with criteria low. This show that student must prepare interest they from home so you can obtain good value. Class XI IPA 3, with percentage of 30.11%, must convincing self they alone for always own intention learn. So that the average value is with 61.55%, criteria low. Participant educate show enthusiasm they with lift hand for answer question or give opinion, shouted celebrate victory, exchange information, and provide spirit one each other. Objective end from all learning processes is for reach mastery concept and result satisfying learning (Arimbawa, 2021; Artayasa et al., 2021).

Indicator like seek and solve answer questions for participants educate can with easy answer questions given by the teacher. The results of data analysis on this indicator show that indicator like seek and solve answer questions biology class XI IPA 1 of 88.55% with criteria very high, class XI IPA 2 of 75.23% with criteria high, and class XI IPA 3 of 81.51% with criteria very high. The average value obtained is 79.10%. This show that participant students who like study biology tend easy in seek and solve questions biology. Student the more like if must do question and answer with correct because will get gift. The more tall motivation performance participant educate, then the more tall results study biology can achieved (Lianto, 2018).

## CONCLUSION

Research results show that motivation study student class XI IPA 1 reached 75.44%, with category strong motivation. Temporary that, students class XI IPA 2 and IPA 3 have results motivation study each of 65.36% and 54.21%, with moderate criteria. Average yield motivation study whole student class XI IPA achieved 65.00% with category medium. Besides that, comparison the questionnaire submitted by the teacher shows that 72% of students own high criteria in motivation learn. Implications from study this can give benefit for biology teachers at MA Alliful Ikhwan SAA in increase motivation study students and quality learning biology at school. Besides that is, research this too can used as reference for study more carry on about motivation study students in the field biology.

## RECOMMENDATIONS

Based on this research, the motivation to study biology is very good and hopefully it can be further improved so that the motivation can continue and increase so that you always get good grades and high-increasing success.







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## REFERENCES

- Adnan, Muharram, dan Jihadi, A. (2019). Pengembangan E-Book Biologi Berbasis Konstruktivistik untuk Meningkatkan Motivasi Belajar Siswa SMA Kelas XI. *Pengembangan E-Book Biologi*, 22(2), 112-119.
- Afiif, A., dan Makkulau, A.-F.B. (2017). Motivasi Belajar Biologi Siswa SMA Ditinjau dari Pola Asuh Orangtua dan Dukungan Sosial Teman Sebaya. *Jurnal Psikologi Perseptual*, 1(2), 62-69.
- Arimbawa, I.G.P.A. (2021). Penerapan Wordwall Game Quis Berpadukan Classroom untuk Meningkatkan Motivasi dan Prestasi Belajar Biologi. *Indonesian Journal of Educational Development*, 2(2), 324-332.
- Artayasa, I.P., Marlina, D., Sipayung, D.A.S., dan Fitriatunisyah, F. (2021). Praktikum Biologi Selama Pembelajaran Online: Minat Mahasiswa dan Pengaruhnya terhadap Keterampilan Proses Sains. *Bioscientist : Jurnal Ilmiah Biologi*, 9(2), 389-401.
- Devi, N.S., Efendi, I., dan Samsuri, T. (2021). Model Pembelajaran Kooperatif Tipe Student Teams Achievement Division Berbantuan Media Video terhadap Motivasi dan Hasil Belajar Kognitif. *Reflection Journal*, 1(1), 22-32.
- Hani, R., dan Suwarma, I.R. (2018). Profil Motivasi Belajar IPA Siswa Sekolah Menengah Pertama dalam Pembelajaran IPA Berbasis STEM. *WaPFI (Wahana Pendidikan Fisika)*, 3(1), 62-68.
- Harefa, M., Lase, N.K., dan Zega, N.A. (2022). Deskripsi Minat dan Motivasi Belajar Siswa pada Pembelajaran Biologi. *Jurnal Pendidikan*, 1(2), 381-389.
- Hastuti, R., Rahman, U., dan Muchlisah. (2019). Pengaruh Regulasi Diri (Self Regulation) dan Motivasi Belajar terhadap Hasil Belajar Biologi pada Peserta Didik Kelas XI MIA MAN 1 Bulukumba. *Jurnal Al-Ahya V*, 1(1), 42-52.
- Hunaepi, H., Dewi, I.N., dan Sumarjan. (2019). Profiling Students' Environmental Care Attitudes Taught Using Sasak Tribe Local Wisdom-Integrated Model. *JPBI (Jurnal Pendidikan Biologi Indonesia)*, 5(3), 549-558.
- Khairani, M., Sutisna, dan Suyanto, S. (2019). Studi Meta-Analisis Pengaruh Video Pembelajaran terhadap Hasil Belajar Peserta Didik. *Jurnal Biolokus*, 2(1), 158-166.
- Lianto, J.W.M. (2018). Kepadatan Populasi Uca Lactea dan Uca Coaricata pada Biotop yang Berbeda di Bengkulu. *Pendidikan Biologi*, 8(2012), 711-716.
- Listiana, Y.R. (2021). Dampak Globalisasi terhadap Karakter Peserta Didik dan Kualitas Pendidikan di Indonesia. *Jurnal Pendidikan Tambusai*, 5(1), 1544-1550.
- Mardiyanti, M., Royani, I., dan Samsuri, T. (2022). Penerapan Model Pembelajaran Gagnon and Collay Berbantuan Games dalam Meningkatkan Motivasi dan Prestasi Belajar Siswa. *Reflection Journal*, 2(1), 34-45.





- Mayarni, M., Hadawiyah, W., Irdalisa, I., dan Nisa, R.A. (2021). Keterampilan Berpikir Kreatif Biologi Siswa Kelas X melalui Penerapan Media Pembelajaran Berbasis Google Sains (Audiovisual): Bahasa Indonesia. *Reflection Journal*, 1(2), 52-62.
- Pramitasari, A. (2011). Hubungan antara Persepsi terhadap Motivasi Belajar Biologi Siswa Kelas XI IPA. *Fakultas Psikologi Universitas Diponegoro*, 9(1), 92-102.
- Santosa, T.A., dan Yulianti, S. (2020). Pengaruh Pemberian Kuis terhadap Peningkatan Motivasi Belajar Biologi Siswa di SMA Negeri 7 Kerinci. *Edusaintek : Jurnal Pendidikan, Sains dan Teknologi*, 7(2), 1-18.
- Siburian, J., Sihotang, A.B., dan Sadikin, A. (2022). Validitas Perangkat Pembelajaran Model Flipped Classroom dalam Meningkatkan Motivasi dan Hasil Belajar Kognitif Siswa SMA. *Bioscientist : Jurnal Ilmiah Biologi*, 10(2), 1192-1201.
- Siregar, S., Nazliah, R., Hasibuan, R., Julyanti, E., Siregar, M., dan Junita. (2021). Manajemen Peningkatan Kualitas Pembelajaran Matematika pada SMA Labuhanbatu. *Jurnal Education and Development*, 9(2), 285-290.
- Sudarsih, A. (2021). Penerapan Model Pembelajaran Kooperatif Tipe TPS (Think Pair Share) terhadap Peningkatan Motivasi dan Hasil Belajar Matematika Siswa Kelas VI B SDN 19 Cakranegara. *Reflection Journal*, 1(2), 93-99.
- Utami, D.L., Wibowo, Y., dan Rahayu, T. (2017). Penyusunan Media Pembelajaran Video Animasi Sistem Saraf untuk Meningkatkan Motivasi Belajar Siswa Kelas XI SMA Negeri 1 Kasihan Bantul. *Jurnal Prodi Pendidikan Biologi*, 6(2), 39-46.
- Yustini, S., Rahmayumita, R., dan Hidayati, N. (2021). Video dan Google Classroom: Sebuah Cara untuk Meningkatkan Motivasi Belajar Biologi Siswa SMAN 1 Pagaran Tapah, Riau. *Bioedusiana: Jurnal Pendidikan Biologi*, 6(2), 121-132.