

# Analysis on Students' Learning Readiness in Junior High Schools of Pangkalpinang, Bangka Belitung

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# Analysis on Students' Learning Readiness in Junior High Schools of Pangkalpinang, Bangka Belitung

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**Abstract.** Learning readiness is one of the indicators supporting students' learning achievement. The higher the students' learning readiness, the higher their possibility to achieve the learning outcome. The purpose of the research is to analyze the students' learning readiness in several junior high schools in Pangkalpinang City, Bangka Belitung Island, Indonesia. The study belongs to a survey study with a cross-sectional design investigating 150 students from three junior high schools, both private and public. The data were collected through a questionnaire and they were analyzed using SPSS with one-way ANOVA and independent sample t-test. The results show that there is no difference in the students' readiness in two public junior high schools, those are SMP N 1 Pangkalpinang and SMP N 7 Pangkalpinang, with the sig value  $0.568 > 0.05$ . Conversely, there is a difference in the learning readiness between the private and public schools, which is between SMP N 1 Pangkalpinang and SMP Muh Pangkalpinang as well as between SMP N 7 Pangkalpinang and SMP Muh Pangkalpinang, with sig value  $0.000 < 0.05$ . Meanwhile, the t-test for the gender comparison shows no difference in terms of learning readiness, with the sig value  $0.663 > 0.05$ . The research comes to several conclusions. First, the school status (public and private) shows a difference in learning readiness, in that those in public schools have higher readiness compared to those in private schools. Second, male and female students show similarities in terms of learning readiness.

**Keywords:** Learning readiness, junior high school, gender, school status

## 1. Introduction

Facing the challenges of the twenty-first century requires our readiness in any situation. Education plays an important role in helping an individual to prepare himself for the challenges (DiBenendetto & Myers, 2016). Other than the readiness in the career and the social environment, learning readiness is also necessary for the students in an attempt to obtain new knowledge and experience. On the other hand, there is a gap between students and educators in the efforts to develop the skills in the century (Robbins, 2017). Therefore, students' readiness becomes a concern for the sake of their learning success.

The success of the learning process is influenced by several factors, both external and internal. Learning readiness is one of the internal factors for the students' success (Payne et al., 2008), allowing them to gain new experience. Curenton (2010) explained that the students' success at school depends on their readiness along with the skills obtained in several domains, such as academic, physical, and social-emotional. Meanwhile, Breathnach and Stephenson (2011) state that the gaining of experience and success needs mature learning readiness of various factors, coming from the educators as well as from the targeted experience.

Ramlan et al. (2019) propose that readiness and learning interest are significant indicators for the success of education. Similar to the idea, Vasilevska et al. (2017) reveal the differences in the students' readiness in following distance education. In addition, the study concludes that there was no evaluation of the students' readiness for the distance model. Similarly, in their study, Kaymak and Horzum (2013) explain the importance of students' readiness for online learning, particularly about the structure that influences the students' learning outcome and interaction. Meanwhile, Mulyani (2013) conducted descriptive correlational research and the result revealed that there is a correlation between students' learning

readiness and their learning achievement. Further, physical, social, and emotional development, as well as self-efficacy will influence the students' maturity (Lema & Agrusa, 2007). In addition, students' health is another intrinsic component to be taken care of by the educators for the success of teaching (Tretyakova et al, 2016).

Learning readiness helps students to receive various things in order to achieve the standard mastery. Every student has different level of readiness. Unfortunately, the teacher often ignores the fact. Some teachers teach without considering the students' readiness. The present study found that learning readiness is distinguished based on gender and school status. The distinction occurs in junior high schools in Pangkalpinang City, Bangka Belitung Island. Previous studies have not focused on the students' learning readiness, particularly the one that is classified based on gender and school status (Tomlinson et al, 2003). The study is significant to help the schools, local government, teachers, and educational practitioners get more insight into the factors influencing students' readiness, allowing them to implement proper policy.

## 2. Literature Review

### The concept of learning readiness

Learning readiness is the prerequisite condition for an effective teaching and learning process at school. There are two models in the concept of readiness. Those are readiness for learning and readiness for school. According to Hilfery & Redmond (2010), readiness for school is defined as limited construction that refers to the necessary knowledge and skills to achieve success at school. Different from this concept, readiness for learning has a broader meaning, in that the child can develop and learn at different stages in their life. Learning in this concept is seen as continuous and multisided. Besides, it combines the physical welfare of the children as well as their motor, social, emotional, linguistic, and cognitive development. Jensen (1969) explained that the students' readiness for learning includes cumulative learning, sub-skills, components, and development maturity that are necessary to integrate the sub-skill into the targeted skills. Murray & Harrison (2011) stated that the decision of 'readiness' is related to the identification of the students' competence and their specific capabilities that are needed for school. To prepare the students' readiness, these aspects are necessary to consider. To put it simply, a child who is ready for school has the basic skills and knowledge in various domains that allow them to succeed at school (UNICEF, 2012).

Thorndike's readiness law (in Prakash, 2012) suggested that readiness is a mental condition where a child can learn the subject when he has the willingness to do it. Meanwhile, Billett (2018), in his study, found that readiness includes everything that is acknowledged <sup>26</sup> done by the students. He added that readiness also means the values that link the students' understanding to their experience and then they integrate the experiences to achieve successful learning (the ability to adapt). Furthermore, learning readiness needs to consider the social development of the students as well as their intellectual background (Katz, 1991).

### Factors that influence the Students' Learning Readiness

Students' readiness in learning has been discussed since the 1980s. Ansari & Coch (2006) revealed that social-economic status, language, limited problem-solving strategy, and parents' involvement highly influence a student's readiness. Meanwhile, the underlying factors of learning readiness include the environment, parents' responsibility, and teachers' responsibility. Perry et al. (1998) stated that parents help children in preparing for the school while teachers' roles are related to the teaching and learning process at school. Further, Janus and Duku (2007) proposed five aspects of learning readiness: social-economic status, family condition, the students' health, the parents' health, and parents' involvement, in developing the students' literacy. Although family characteristics have the biggest significance in shaping the <sup>18</sup> students' readiness, the environment, independently, is related to the early development (physic and welfare), linguistic and cognitive development, and communication, as well as skills and common knowledge of the student (Oliver et al., 2007).

Self-confidence, motivation, and achievement of the students are greatly influenced by their readiness in learning (Dangol & Sherestha, 2019; Moyer, 2011; Kearney & Garfield, 2019; Samarawikrema, 2005; Grace & Brandt, 2006). It indicates that the low level of students' readiness may lessen the effectiveness of the teaching and learning process. Students' readiness influences educators in determining the learning objectives (Weinstein & Wu, 2009; Xu et al, 2017). Other studies prove that learning materials and strategies also affect the improvement of the students' readiness (Brigman & Webb, 2003). Learning readiness provides students with the necessary skills, thereby preventing them from future failure. Besides, Grigoryeva (2019) stated that students' readiness for changes influences the level of their social activities.

By considering several factors, schools carry out various components to im<sup>15</sup>ve students' learning readiness. Mardati et al. (2019) explained that the teachers' value and leadership become significant factors that influence the students' readiness. The higher the leadership and the values, the higher the students' learning readiness is. Readiness includes motivation, development, and attention aspect.

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## 3. Research Methods

## Research Design

The research belongs to the quantitative type using a cross-sectional survey design. It is carried out by collecting the data at a particular time from the samples (Cresswell, 2012). The design was employed to measure the behavior of the population concerning the level of students' readiness, which becomes the variable of the study. The design is chosen because it can immediately present the necessary information.

## Participants

The population of the research is the students of the junior high schools in Pangkalpinang City, Bangka Belitung Island, Indonesia. From the population, the samples were taken using random sampling technique, which resulted in the selection of three schools (SMP N 1 Pangkalpinang, SMP N 7 Pangkalpinang, and SMP Muh Pangkalpinang). From the selected schools, 150 students from grade 7 and 8 were taken as the samples.

## Technique of Collecting and Analyzing the Data

The data were collected through questionnaire. The instrument is the questionnaire containing items of questions developed from the indicators. The questionnaire has been used before and has been tested by the expert judgment and validated through an empiric test in the field. The data were then analyzed using ANOVA Post Hoc test using Scheffe's test technique to analyze the school status; while independent sample t-test is to analyze the gender difference. All of the techniques are carried out using SPSS 20.0 software.

# 4. Findings

## Result of Prerequisite Test

The prerequisite test was carried out before finding the result of the research hypothesis. The test consists of a normality test and homogeneity test using SPSS 21.0. The normality-test result is shown in table 1.

Table 1. Results of Normality Test

Tests of Normality				
Grade School	Shapiro-Wilk			
	Statistic	df	Sig.	
Data_Grade	SMP Muh PKP	.965	49	.151
	SMP N 7 PKP	.975	51	.359
	SMP N 1 PKP	.981	50	.583

\*. This is a lower bound of the true significance.  
a. Lilliefors Significance Correction

Based on table 1, the sig. value of Shapiro-wilk on day three is higher than the significance level of 0.05. Thus, it can be concluded that the data are normally distributed. The steps proceeded with the homogeneity test, of which the result of the test is shown in table 2. Table 2 shows the Lavene Statistic value 0.540 with Sig. value 0.584 > 0.05. Thus, it can be concluded that the variants among groups are similar or homogenous. Both prerequisite tests have fulfilled the requirements for hypothesis analysis because the data were distributed normally and homogenous. The hypothesis test was carried out to analyze the difference in the students' learning readiness from the variable of school status and gender.

Table 2. Results of Homogeneity Test

Test of Homogeneity of Variances			
Data_Grade			
Levene Statistic	df1	df2	Sig.
.540	2	147	.584

## 1. First Hypothesis Test (T-test for each school)

The analysis is aimed to describe the readiness of each school. Through ANOVA and Post Hoc tests, the schools under study are found to have different levels of readiness. The following are the results of ANOVA and Post Hoc using SPSS 21.0.

Based on the tabel 3, it is known that the mean score of three schools is different. The first place is occupied by SMP N 1 Pangkalpinang with the mean of 99.40. The second is SMP N 7 Pangkalpinang with the mean of 96.80. Meanwhile, the last is occupied by SMP Muhammadiyah Pangkalpinang with the mean of 82.41. The total mean is 92.97. Before taking the

ANOVA test, prerequisite tests were carried out.

Table 3. Descriptive analysis results of the statistics

Data Grade	Descriptive			
	N	Mean	Std. Deviation	Std. Error
SMP N 1 PKP	50	99.40	12.825	1.814
SMP N 7 PKP	51	96.80	12.058	1.688
SMP Muh PKP	49	82.41	11.783	1.683
Total	150	92.97	14.255	1.164

Table 4 shows the difference in terms of readiness among schools under study. The table 4 shows the results of the t-test using one-way ANOVA, with the sig. value  $0.00 < 0.05$ , meaning that the three schools have a relatively different level of readiness.

Table 4. T-test result of learning readiness of each school

ANOVA					
Data_Grade	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	8282.957	2	4141.479	27.680	.000
Within Groups	21993.876	147	149.618		
Total	30276.833	149			

Meanwhile, to compare the readiness of each school, the Post Hoc test was carried out using the Scheffe Technique, which is shown in table 5. Table 5 compares the learning readiness of the three schools under study. It is known that the sig.value between SMP Muh Pangkalpinang and SMP N 7 Pangkalpinang is  $0.000 < 0.05$ . It means that the average score for the difference is -14.396 with confidence level of 95%. Similarly, the sig value for the t-test of SMP Muh Pangkalpinang and SMP N 1 Pangkalpinang is  $0.000 < 0.05$ . Hence, the two schools are different with the mean score of 16.992 and the confidence level of 95%.

Table 5. Results of T-test of each school

Multiple Comparisons				
Dependent Variable: Data_Grade				
Scheffe				
(I) Grade School	(J) Grade School	Mean Difference (I-J)	Std. Error	Sig.
SMP Muh PKP	SMP N 7 PKP	-14.396 <sup>*</sup>	2.447	.000
	SMP N 1 PKP	-16.992 <sup>*</sup>	2.459	.000
SMP N 7 PKP	SMP Muh PKP	14.396 <sup>*</sup>	2.447	.000
	SMP N 1 PKP	-2.596	2.434	.568
SMP N 1 PKP	SMP Muh PKP	16.992 <sup>*</sup>	2.459	.000
	SMP N 7 PKP	2.596	2.434	.568

\*. The difference is significant at the 0.05 level.

Meanwhile, the sig value between SMP N 7 Pangkalpinang and SMP N 1 Pangkalpinang is  $0.568 > 0.05$ . The result shows that both schools are not different in terms of learning readiness. The t-test revealed that the two public schools are not different, while they show different scores when each is compared to the private school, which is SMP MUH Pangkalpinang. The t-test is presented in table 6.

Table 6. T-test of Learning Readiness based on the School Status

School Name	Sig value	Explanation
SMP N 1 PKP with SMP N 7 PKP	0,568 > 0,05	No diferrence
SMP N 1 PKP with SMP Muh PKP	0,000 < 0,05	Diferrence
SMP N 7 PKP wih SMP Muh PKP	0,000 < 0,05	diferrence

## 2. Second Hypothesis Test (T-test of learning Readiness based on Gender)

The test is aimed to know the differenc<sup>23</sup> terms of learning readiness based on gender. The second analysis employed an independent sample t-test, of which the result is presented in table 7.

From the table 7, it is known that the number of female respondents is 84, while the male is 66. The mean score of both genders is different. Female students reached the score of 93.60, higher than the male (92.94).

Table 7. Statistic<sup>11</sup> Descriptive Result based on Gender

Group Statistics					
	Gender	N	Mean	Std. Deviation	Std. Error Mean
Data	Female	84	93.60	13.652	1.490
Gender	Male	66	92.94	14.543	1.790

The result was further tested and<sup>22</sup> score can be seen in table 8. Table 8 shows the significance level of 0.656 compared to the sig rate of 0.05. Thus, it can be concluded that male and female students have the same level of readiness.

Table 8. Test Result of Learning Readiness<sup>3</sup> Based on Gender

Independent Samples Test					
t-test for Equality of Means					
	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference
Equal variances assumed	.284	148	.777	.656	2.311
Equal variances not assumed	.282	135.356	.779	.656	2.329

## 4. Discussion

The result revealed two points. The first is the students' learning readiness in private and public schools, and the second is the learning readiness of male and female students. From the result, in this research, public school students are more ready compared to the private one. In addition, male and female students show the same level of learning readiness.

The first finding shows that male and female students show similar level of readiness. It is caused by their similarity in the aspect of thinking skills and learning habits (UNICEF, 2002). It contributes to the references about learning readiness, in that male and female students are equal in the educational aspect. This is apart from the physical difference between both

genders. The result is similar to the study conducted by Schnepf and Sylke (2004), mentioning that gender does not significantly influence learning readiness. The result supported the study<sup>21</sup> conducted by Gee (2015), which correlates the learning readiness to students' achievement. The mean score between male and female students are equal in four fields of study: literacy, calculation, natural science, and social science.

Although the analysis shows that the male and female students' readiness is similar, gender equality needs to be integrated into the classroom to contribute to the improvement of the students' academic performance (Hernandez & Cudiamat, 2018). Besides, the main challenge in relation to gender in education is to go beyond documenting the effect of gender differences (Jacobs, 1996). Further, gender will give different effects on each individual's readiness for learning.

The second finding reveals that students from schools having different status have different readiness in learning. The results show that the comparison of two public schools, those are SMP N 1 Pangkalpinang and SMP N 7 Pangkalpinang, proves that there is no difference in terms of learning readiness. Meanwhile, when each public school is compared to the private school, SMP Muh Pangkalpinang, it is evident that the students in public schools are more ready to learn. Based on the score of readiness, SMP N 1 Pangkalpinang is in the first place, followed by SMP N 7 Pangkalpinang. Thus, SMP Muh Pangkalpinang reached the lowest score of learning readiness.

The analysis of the present study combined with the previous studies revealed that the difference in the students' learning readiness is not caused by the school status. Public schools prove to build better students' learning readiness (Dronkers & Robert, 2008; Brunello & Rocco, 2008; Iqbal, 2012) because they have better input of the students, better classroom climate, better service quality, and more professional school management. Meanwhile, other studies also found that the students' learning readiness in private schools is better (Mancebón & Muñiz, 2008; Urquiola, 2016; Fidana & Ozturk, 2015) because the students have a better family background and the teachers are more creative and highly motivated. In short, the key factors of learning readiness include the students' capability, social composition, classroom climate, school service, motivated and creative teachers, better facilities, and professional staff. In addition<sup>10</sup>, Barrera-Osorio et al. (2020) reported that the increase of students' performance is related to the improvement of the input availability, as well as a positive selection from the government in helping students in private schools.

Schools need to arrange long-term plans to improve students' learning readiness<sup>20</sup>. Kartal & Balcikanli (2019) proposed that it is important to investigate the students' readiness since it turned out that teachers can create a comfortable learning environment for the students. Improvement of the teachers' values in the learning process is necessary to create better classroom learning (Suyatno et al., 2019a; 2019b). Good classroom climate is expected to be one of the key factors in improving the students' learning readiness.

## 5. Conclusion

To sum up, the school status (public and private) influences the learning readiness of the students. Those in public schools are more ready compared to those in the private one. Meanwhile, gender does not cause any difference. From the theories and the results of previous studies, it can be concluded that the differences are not caused by the school status. Instead, they are from the attributes owned by the schools, for example, potential students, social composition, school climate, and school services. Besides, motivated and creative teachers should be taken into account, in that they always try to find new methods in teaching. Furthermore, the school quality cannot be separated from the qualified staff, allowing the schools to have better management. All of these are the support system for the students' learning readiness.

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