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## The Influence of the Teacher's Role in Increasing the Learning Independence of Mobile-assisted Elementary School Students

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### ABSTRACT

**Background.** The role of the teacher to increase student learning independence will be very influential. Teachers will be able to help students to carry out learning activities independently. So this will provide opportunities for students to be active during learning. The teacher will be a motivator to increase students' interest, enthusiasm, and self-confidence. This will provide a new enthusiasm for students to do things independently. Independence will also help students be more responsible in doing things.

**Purpose** This study aims to determine how much the teacher's role is in increasing learning independence for students. Teachers who are a place of aspiration for students at school will play an important role in the development of students in the world of education. In addition, it also aims to provide an overview of the development of strategies and methods to support the needs in the process of independence for students.

**Method.** The method used in this research is a quantitative method. This method is a form of data collection in the form of numbers that can be tested. The data obtained is the result of the acquisition of responses from the distribution of questionnaires containing questions regarding the influence of the teacher's role in increasing student learning independence. The statement in the form of a questionnaire is presented in the form of google from which is shared via whatsapp. The collected data will be accessed into excel to be processed using SPSS.

**Results.** The results of this study state that teachers as parents in formal schools have a big role in the efforts of learning independence for students. Providing opportunities for students to be active in learning will provide opportunities towards learning independence. Appreciation and motivation from teachers will increase students' interest in learning. This will help students in overcoming learning difficulties. Teachers can provide guidance to improve students' learning independence.

**Conclusion** This research can be concluded that students need the role of the teacher as a support for increasing independence in learning. Students' independence in learning will affect their daily lives. In addition, it will help students to increase self-confidence, responsibility, initiative, and self-control. So that students are expected to be able to plan the learning process, seek information, and also evaluate learning outcomes.

### KEYWORDS

Independence, Teacher, Role

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## INTRODUCTION

Teachers are a profession that has the responsibility of educating, teaching, guiding, and training students (Bellibaş, 2020; Castillo-Gualda, 2019). Teachers as professionals in formal schools have a big role in student growth and development. Teachers not only provide lessons in the form of material to students in school. But also provide spiritual intake in the form of manners, attitudes, skills, and others. This will help students in their daily behavior (Chamizo-Nieto, 2021; Chen, 2020; Cheng, 2019). Teachers as teachers will provide material in accordance with the established curriculum. On the other hand, the teacher as an educator is a form of duty and role in shaping the character, competence, and potential of students. This can be done with examples of application in everyday life. In addition, it can also be through exemplary behavior shown when interacting with students. Teachers who are role models as professionals must have superior qualities. Such as responsibility, authority, discipline, dedication, creativity, innovation, results-oriented.

Teachers certainly have a role in their professionalism. Roles are functions that must be performed by teachers in certain situations. The role of the teacher is a situation where the teacher must carry out certain tasks and functions when needed (Fülöp, 2022; Fyfield, 2021; García-Martínez, 2019). Teachers have various roles in the world of education for the advancement of knowledge. The role of teachers as educators who must be able to shape the character, competence, and potential of students through the learning process (Darayseh, 2023, 2023). This takes the form of illuminating appropriate normative, social and cultural values. On the other hand, teachers must also provide appropriate teaching for students. The implication of this is the clear delivery of science, technology, and even art to students (Bdiwi, 2019; Collie, 2019; Glock, 2019). In addition, teachers must also guide and provide guidance to students. This is done as an initial step to prevent problems from occurring and also to solve problems faced by students (Lazarides, 2020; Li, 2019; Marengo, 2021). Training is needed to develop the skills and abilities that students have. Every action that students take is not all right. Sometimes there are mistakes, so the teacher as an advisor must be able to provide advice and input and improvements to students. The role of the teacher will help students to innovate and adapt to the times, science, and related matters.

The realization of the teacher's role produces students who have good ethics, education, and independence. Independence is an ability that exists in a person to act on a policy on his own (Pedler, 2020; Richards, 2019; Sánchez-Mena, 2019). Not only acting, but also taking responsibility for it without depending on others. Independence is very important in a person's psychological development. Independence in learning is the ability to carry out an activity that is based on one's own initiative and responsibility (Mesler, 2021; Metos, 2019; Oppermann, 2019). This is driven through a form of mastery of a competency and built with the knowledge possessed. so that someone can determine learning activities, make decisions, and evaluate learning outcomes in accordance with their autonomy (Sun, 2022; Tao, 2022). Improvement in learning independence contains various aspects. In increasing learning independence, students need to be given the opportunity to explore their skills. In addition, it can also be through fun materials so that students take more initiative and pursue the lesson. Each student has a different learning method, so a comfortable learning atmosphere is needed.

Research on the influence of the teacher's role in increasing student learning independence has deep reasons to be researched. Teachers as educators, teachers, trainers, mentors, and motivators for students have an important role in the student education process. The influence must be known whether it is able to provide an increase in student independence in the teaching and learning process. Learning independence is needed for students to increase their sense of responsibility, discipline, confidence, and other things. Learning independence in order to make students become motivated to

explore themselves. So that academic and non-academic achievements emerge from students. This will also affect how far the teacher has carried out his role as a professional educator. So that there are considerations, benchmarks, as future evaluation material in increasing independence in students when learning. This research will contribute to maximizing the role of teachers in increasing students' learning independence. Independence in students can increase with the contribution of teachers in carrying out learning tasks. Teachers who will play a role in providing direction, motivation, advice, and advice on what students do. This is needed to increase students' self-confidence, discipline, responsibility. A strategy is needed to develop students' learning independence. Identifying problems faced by teachers and students in the learning process must be responded to swiftly. A good teacher contribution in exploring the role of parents in formal education institutions will provide new opportunities. Increasing the role of the teacher will affect the emotional state of students. So that the ability of students will also be determined by the implementation of the teacher's role.

The innovation initiated in this study is the identification of the influence of the teacher's role in increasing student learning independence. The novelty of this research focuses on increasing the learning independence of students through the role of the teacher. In previous research (Bdiwi, 2019) on "A smart learning environment: The teacher's role in assessing classroom attention". This study focuses on the teacher's role in assessing classroom attention. This shows that the teacher's position has an important role in assessing classroom attention. Meanwhile, the current research seeks the influence of the teacher's role on student learning independence. Does the role of the teacher have an effect on increasing student independence or not.

The main purpose of this research is of course to improve the quality of education. Teachers as parents at school must carry out their roles and responsibilities. Maximum implementation of roles and responsibilities will have a positive impact on student development. This development is not only in terms of science but also in terms of skills, responsibility, discipline, self-confidence, and an increase in the norms that apply. This must be anticipated before it becomes a big problem. This problem can expand so that it is uncontrollable and will be difficult to solve. The cultivation of the teacher's role in directing, advising, giving advice and views to students will support students' abilities. Students who feel cared for and comfortable will increase self-confidence. So that this will trigger self-development. So that students appear to excel in the academic and non-academic fields.

Researchers hope that this research will provide new enthusiasm and new perspectives for teachers and students to carry out their respective roles. The awareness that must be planted in oneself for the improvement of the world of education. the changes made should be able to have a positive impact on the surrounding environment and even education and the country. The researcher's biggest hope is that this article can provide benefits and also references for consideration in decision making. Hopefully this article can also be taken into consideration for further researchers related to the role of teachers and increasing learning independence in students. So that a more directed and comfortable education can be achieved. Furthermore, thanks to all those who have contributed to this research.

## **RESEARCH METHODOLOGY**

### **Research Design**

This research uses a quantitative research design. Quantitative research is data that is processed in the form of numbers (Arvapally, 2021; Bullich, 2020; Chain, 2019). The data obtained comes from a questionnaire distributed via whatsapp. The questionnaire contains questions related to the influence of the teacher's role in increasing student learning independence which are inputted into google form. This aims for easy access and easy data collection (Böttcher, 2019; Cao, 2020). This method is used to formulate the results of the responses to questions related to the influence of the teacher's role. The

data presented is in accordance with each event experienced by teachers and students. The results of the questionnaire distribution will be converted into numbers and entered into excel. Furthermore, it will be processed through SPSS with the oneway anova test. Researchers will also review the acquisition of the highest answer and the lowest answer.

### **Research Procedure**

This research procedure will go through a series of systematic steps to collect, analyze and provide an understanding of the data collected. The research starts from asking permission from the teacher and students who will be used as subjects. Then every detail of the researcher's question until it reaches an acquisition that is considered to meet the target. On the other hand, researchers use language that is good and easy to understand so that it can be understood by teachers and students. This will facilitate the process of collecting answers from research subjects. So that the time used is also shorter and faster. This process will make it easier for researchers to test and examine various problems faced by teachers in using online learning.

### **Research Subjects**

This research chose research subjects, namely teachers and students who were selected from various institutions. The role of the researcher is to collect responded answers from questions given to teachers and students. This research will be very important to improve the role of teachers in various schools. So that it will have a positive impact on increasing independence in students to a significant increase in achievement. Teachers as a form of educators as well as motivators will greatly influence the future career and life of students. Students who from childhood will imitate and interpret the words of the teacher will be very influential in the learning process. Therefore, the influence of the teacher's role in the process of student development and growth is very significant.

### **Research Ethics**

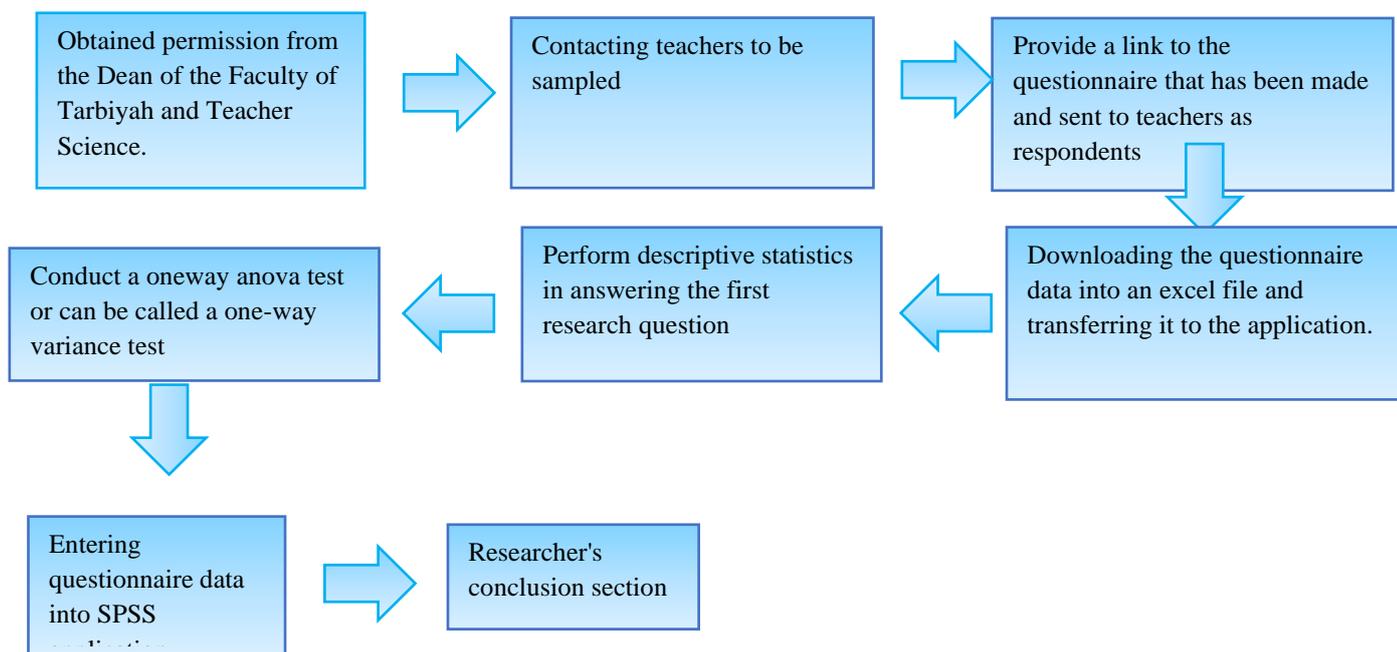
Research requires ethics, manners, norms, and courtesy. This is considered important in every stage of research. Research ethics are norms, manners, and attitudes that exist in researchers to serve as the basis for behavior. The implementation of research ethics is useful for ease in collecting data, as well as conducting research. The language used is polite and respectful and does not offend other people. The implementation of research ethics will have a positive impact on researchers. In addition, there is a sense of security and comfort in conducting research so that information is conveyed and received easily. This will speed up and save time used. This access contains consent and permission to individuals to conduct research. The data collected will be kept safe from recognition of other people's property rights. The research was conducted fairly and without favoring any individual. This research also does not impose its will on the subject so that there is no sense of threat. In addition, the research gives appreciation to all parties who have helped in the implementation of the research.

### **Data Collection Technique**

Data collection in this study used the distribution of questionnaires presented in Google form. This aims to provide easy access as well as cost and time savings. Sharing questionnaires via whatsapp will provide free and flexible time in carrying out research. Google form contains 20 questions related to the influence of the teacher's role in increasing student learning independence. The data collected is the number of percentages responded to each question given. The results were moved into excel and changed to a number format. This is useful to facilitate the data processing process using SPSS. Number format is a characteristic of quantitative methods. This is useful to show the role of teachers in increasing students' learning independence. This data will be presented in the form of numbers and explained the highest response to the statements submitted.

NO	Department of	Number of Participants	Percentage
1.	Teacher	10	40%
2.	Students	15	60%

No	Choice Category	Tier Number
1	Strongly Agree (5)	>90%
2	Agree (4)	70-80%
3	Disagree (3)	50-60%
4	Strongly Disagree (2)	0-40%
Total		100%



## RESULT AND DISCUSSION

Learning independence is the ability of students to learn independently without depending on others. Both in terms of determining learning goals, strategies, sources, and evaluation. Student learning independence is very important to develop because it can increase motivation, achievement, creativity, and readiness to face future challenges. Teachers can make various efforts to foster student learning independence. Teachers as motivators provide encouragement, praise, appreciation, and positive feedback to students so that students feel valued, confident, and eager to learn. Teachers as teachers use varied, interactive, and cooperative learning methods and approaches, as well as providing tasks and challenges that are appropriate to the level of students' abilities and development.

NO	Question	SS (%)	S (%)	TS (%)	STS (%)
1	Teachers help students access learning resources available on mobile devices	67%	33%	0%	0%
2	Teachers instill positive values such as responsibility, discipline, cooperation, and creativity to students through mobile learning	33%	67%	0%	0%

<b>3</b>	Teachers recognize students' characteristics, interests, talents, and potentials, and provide necessary emotional, social, and academic support	47%	53%	0%	0%
<b>4</b>	Teachers present subject matter that is interesting, meaningful, and relevant to students' lives using mobile devices as learning media	47%	53%	0%	0%
<b>5</b>	Teachers give praise, rewards, and prizes to students who excel or try hard in mobile-assisted learning	40%	60%	0%	0%
<b>6</b>	Teachers create and develop learning materials, media, and methods that are innovative, creative, and in accordance with technological developments and students' needs	33%	67%	0%	0%
<b>7</b>	Teachers model good, professional, and ethical behavior and attitudes in mobile-assisted learning	53%	47%	0%	0%
<b>8</b>	Teachers conduct classroom action research or other research related to mobile-assisted learning	47%	53%	0%	0%
<b>9</b>	Teachers collaborate with other teachers, parents, or other parties related to mobile-assisted learning	33%	67%	0%	0%
<b>10</b>	Teachers assess mobile-assisted learning processes and outcomes comprehensively, objectively, and authentically	47%	53%	0%	0%

The explanation of the table above is the teacher's response to the statement regarding the influence of the teacher's role on increasing student learning independence. The question with the highest response is item 1 regarding teachers helping students access learning resources available on mobile devices. Teachers as teachers and educators in formal institutions must certainly assist students in learning and using the necessary media. Mobile devices can provide wide and easy access to students to get various learning resources. But on the other hand, you still have to pay attention to which sources are trusted and hoaxes. Therefore, help from teachers is needed to teach students to choose and sort these things. Mobile devices are also flexible, interactive, and effective. This will require teacher assistance so that students are not mistaken in their use. On the other hand, mobile devices can increase student motivation, independence, creativity, and learning collaboration. So that there is a development of digital skills from students needed in this information age.

Teachers will assist students in accessing learning resources available on mobile devices in various ways. Teachers can provide in-service technology training. Teachers help students with questions and problems that students feel when using mobile devices. This will create a supportive learning environment and enable students to overcome barriers that come with using mobile devices. The support that teachers provide to students will help students in overcoming difficulties in the use of mobile devices. Guidance from teachers in the use of mobile devices will help students to understand the uses and functions described. This will help teachers to provide appropriate materials, objectives, learning strategies, and evaluation.

NO	Inquiry	SS (%)	S (%)	TS (%)	STS (%)
1	Students can learn easily and comfortably at home through mobile devices	40%	53%	7%	0%
2	Students can operate and utilize mobile devices properly and correctly	67%	33%	0%	0%
3	Students can develop confidence and responsibility in learning through mobile devices	40%	53%	7%	0%
4	Students can explore their potential and talents by using mobile devices	67%	33%	0%	0%
5	Parents can provide support and input according to student needs through mobile device information	27%	64%	0%	0%
6	Students learn with enthusiasm and fun through mobile devices	33%	67%	0%	0%
7	Students can learn actively and effectively through features provided on mobile devices	40%	53%	7%	0%
8	Teachers can improve the quality of mobile-assisted learning by providing solutions to problems faced by students in learning	47%	53%	0%	0%
9	Teachers can obtain useful learning resources, ideas, and suggestions to increase students' learning independence	47%	53%	0%	0%
10	Teachers can provide constructive feedback and appreciate students' learning achievements	60%	40%	0%	0%

The table above is student responses to questions regarding the influence of the teacher's role on increasing student independence. In the proposed statement, the highest response is in the statement that students can explore their potential and talents by using mobile devices. Mobile devices will be able to provide easy and broad access to various sources of information, knowledge, and inspiration that can help students discover and develop their potential and talents. Mobile devices can also be used to communicate, collaborate, and share with people with similar or different interests and fuels from the student. There are several ways that students can explore their potential and talents using mobile devices. The use of applications or websites that match the interests and talents of students. For example, foreign language learning applications, drawing applications, music applications, online course websites, hobby community websites. Taking online tests that can reveal students' potential and talents, for example making videos, blogs, podcasts, books, designs, songs, and others. In addition, participate in competitions or competitions related to students' potential and talents.

#### ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
X.1	Teacher	1.100	6	.183	.550	.756
	Guru	1.000	3	.333		
	Total	2.100	9			
X.2	Teacher	2.400	6	.400	.	.

	Teacher	.000	3	.000		
	Total	2.400	9			
X.3	Teacher	2.500	6	.417	.	.
	Teacher	.000	3	.000		
	Total	2.500	9			
X.4	Teacher	1.900	6	.317	1.900	.320
	Teacher	.500	3	.167		
	Total	2.400	9			
X.5	Teacher	2.500	6	.417	.	.
	Teacher	.000	3	.000		
	Total	2.500	9			
X.6	Teacher	2.100	6	.350	.	.
	Teacher	.000	3	.000		
	Total	2.100	9			
X.7	Teacher	1.900	6	.317	1.900	.320
	Teacher	.500	3	.167		
	Total	2.400	9			
X.8	Teacher	2.400	6	.400	.	.
	Teacher	.000	3	.000		
	Total	2.400	9			
X.9	Teacher	2.100	6	.350	.	.
	Teacher	.000	3	.000		
	Total	2.100	9			
X.10	Teacher	2.400	6	.400	.	.
	Teacher	.000	3	.000		
	Total	2.400	9			

The table above is a sample of answers responded from the influence of the teacher's role in increasing student learning independence that has been processed into SPSS. Total Sum of Squares 2,400, df 9, mean square 0.400, F 0.400. This is found in the statement that teachers assess the process and results of mobile-assisted learning comprehensively, objectively, and authentically. Assessment of the process and results of mobile-assisted learning is an assessment conducted by teachers to measure students' competency achievement using mobile devices. Assessment must be comprehensive, objective and authentic. Comprehensive assessment must cover all aspects of learning in the form of cognitive, affective, and psychomotor. Assessment is conducted using clear, transparent, and consistent criteria, standards, and guidelines. In addition, assessment must be carried out using tasks, situations, or contexts that are in accordance with the real life, needs, and interests of students.

**ANOVA**

		Sum of Squares	df	Mean Square	F	Sig.
X.1	Students	4.083	7	.583	3.267	.071
	Students	1.250	7	.179		
	Total	5.333	14			

X.2	Students	3.333	7	.476	.	.
	Students	.000	7	.000		
	Total	3.333	14			
X.3	Students	3.833	7	.548	2.556	.119
	Students	1.500	7	.214		
	Total	5.333	14			
X.4	Students	3.333	7	.476	.	.
	Students	.000	7	.000		
	Total	3.333	14			
X.5	Students	1.433	7	.205	.956	.523
	Students	1.500	7	.214		
	Total	2.933	14			
X.6	Students	2.833	7	.405	5.667	.018
	Students	.500	7	.071		
	Total	3.333	14			
X.7	Students	2.583	7	.369	.939	.532
	Students	2.750	7	.393		
	Total	5.333	14			
X.8	Students	2.733	7	.390	2.733	.104
	Students	1.000	7	.143		
	Total	3.733	14			
X.9	Students	3.733	7	.533	.	.
	Students	.000	7	.000		
	Total	3.733	14			
X.10	Students	2.600	7	.371	2.600	.115
	Students	1.000	7	.143		
	Total	3.600	14			

In the table above is the acquisition of responses from students to the influence of the teacher's role in increasing student learning independence. The total sum of squares is 3,600, df 14, mean squares 0.371, F 2,600, and sig 0.115. This statement regarding teachers can provide constructive feedback and appreciate student learning achievements. As a teacher, you must provide feedback with a focus on learning objectives. In addition, giving feedback must look at the right time. In addition, providing feedback must be specific, clear, concrete and detailed. In addition, teachers should be able to provide examples or suggestions that can help students improve their work.

Student learning independence is an ability to learn independently without depending on others, both determining goals, strategies, sources, and evaluations that will be carried out while learning. Independence in learning is needed to increase self-confidence, achievement, motivation, creativity, and readiness to face future challenges. Teachers can increase students' learning independence in growing and developing potential. Teachers can provide encouragement, praise, appreciation, and positive feedback to students. This will make students feel valued, confident in exploring themselves. So that there is enthusiasm in learning which will result in an increase in student achievement. Learning certainly requires a supportive infrastructure. It also requires facilities such as learning resources, media, and technology that suit the needs and interests of students. Then a teacher is needed

who can be a facilitator in providing opportunities for students to explore, discover, and construct knowledge.

Teachers should also provide materials that are interesting, meaningful and relevant to students' lives. This will teach students learning skills. This will help students to remember, do, and overcome difficulties while learning. In addition, teachers must also provide varied, interactive and cooperative learning methods and approaches. Providing tasks and challenges that are appropriate to the level of students' abilities and development. Providing assistance, direction, and advice to students who experience problems or difficulties in learning. It is also necessary to monitor and evaluate the process of learning outcomes. So that the achievement of the desired goals in education can be achieved. Accessing mobile devices must be assisted by the teacher. This aims to make it easier for students to learn mobile devices. So the role as a teacher is to help students use mobile devices. Mobile devices such as smartphones, tablets, or laptops as effective learning media. Mobile devices will provide wider and easier access to students to get various learning resources.

Teachers as educators can also provide in-service technology training. Teachers help students with questions and problems that arise when using mobile devices. In addition, teachers can provide extra support to students who have difficulty accessing technology or developing digital skills. Teachers can also share quality and relevant resources with students through social media or similar. Evaluate and select learning resources that meet the needs of students' interests. Mobile devices are able to explore the potential and talents of students. This will support self-development and achieve self-actualization for students. This is supported by the access capabilities of the available mobile devices. There are knowledge, information sources, and inspiration that will help students discover and develop their potential and talents. Mobile devices are also able to facilitate communication, collaboration, and various other things. The use of mobile devices to explore students' potential and talents can be done in various ways. Starting from the use of applications or websites that are in accordance with the interests and talents of students.

Taking online tests that can reveal students' potential and talents, such as personality tests, interest tests, aptitude tests, multiple intelligences tests, and others. Creating works or projects that show students' potential and talents using mobile devices will help train independence in students. Assessment of the process and results of mobile-assisted learning will facilitate the achievement process in increasing student independence. Assessment is comprehensive, covering all aspects of learning from cognitive, affective and psychomotor domains. Planning must be done from the beginning of learning with clear objectives, indicators, criteria, standards, techniques, instruments, and resources that are in accordance with learning through mobile devices. Assessment is not only done at the beginning but on an ongoing basis so that there is no change or decrease in quality. Identify assessment data objectively to make it clearer. Furthermore, report and use the results of the assessment to evaluate matters related to the use of mobile devices.

## CONCLUSION

Education is the foundation of building an individual and society. In education, the role of teachers is very important in shaping students' learning independence. Through the right approach, teachers will be able to create an environment that provides support, motivation, development for students in the ability to learn independently. Teachers must have an understanding of independence in learning. Teachers must have a deep understanding of student learning independence. This is useful for adjusting ways, methods, strategies, and approaches to students. In addition, it includes awareness of students' ability to self-regulate, self-motivate, and manage time and resources effectively. Teachers should also apply learning methods that encourage active student involvement. This will

help teachers to assess students' abilities as well as their interests and burns. Approaches such as project-based learning, group discussion and self-assignment will help students develop the ability to take responsibility and initiative for their learning.

Teachers as recipients of complaints from students must be able to provide constructive feedback. This is an important part in the formation of learning independence in students. Providing clear and in-depth feedback by the teacher will help students understand strengths and weaknesses. This will also help the teacher to direct, give advice, and suggestions for future improvement. Teachers as trainers must be able to provide practice to students in problem solving skills. One example is providing relevant and supportive challenges. Teachers can also help increase the confidence and skills needed in independent problem solving. By playing an active role in shaping students' learning independence, teachers will prepare students for academic and non-academic success. It also equips students with the skills and attitudes needed to succeed in life.

### AUTHORS' CONTRIBUTION

Author 1: Conceptualization; Project administration; Validation.

Author 2: Conceptualization; Data curation.

Author 3: Data curation; Investigation.

Author 4: Writing - review and editing.

Author 5: In-vestigation.

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