Factors That Influence Ability Cognitive Students in Social Studies Subject

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Abstract

Learning process in progress in a way effective, namely in progress in a way slow, steady, and appropriate with objective education, then quality education can achieved. One of the factor main factors that influence the learning process is student That alone, but can also be caused by other factors such as teachers, environment, facilities and infrastructure, and the learning media used. Formulation problem study How influence use of Sway multimedia learning media towards ability cognitive students in Social Studies at SMP Negeri 14 Palu, how influence motivation to cognitive student in eye Social Studies lessons at SMP Negeri 14 Palu. Research objectives analyze the influence of multimedia learning media- based Sway on cognitive students in Social Studies at SMP Negeri 14 Palu. Research This use quasi- experimental approach which is development from true experiment. Research results So reliability is constancy or stability or consistency a tool or instrument For used in measurement, reliability test data can seen in the reliable test technique used namely Cronbach's Alpha and obtained reliability of 0.751 which includes in category very high reliability. In N of Items alpha there is Results 31. Conclusion of the research In the learning process student trained logical ability to solve problems. In the curriculum independence is also given or entered elements life society, nation and state as well as element religious For to form students with character. Therefore, these are learning media multimedia based sway according implemented at SMP Negeri 14 Palu.

Keywords: Cognitive students, science lessons, Sway media, motivation Study

Introduction

Education is effort and endeavor man For realize potential themselves. Because educators is the vanguard in implementation classroom learning, involved direct in the learning process, and plays a role central in achievement objective learning, then standard skills that the child must achieve, then educator obliged For increase quality of education (Anar & Humairah,

2024) . Therefore that, factor knowledge, attitudes, and skills developed by teachers to learning also becomes factor affecting results Study student (Taryzca Putri Laela Ramadhani et al. 2024a) . If the learning process in progress is effective, namely in progress in a way slow, steady, and appropriate with objective education, then quality education can be achieved (Purboyo et al. 2025) . One of the factor main factors that influence the learning process is student That alone, but It can also be caused by other factors such as teachers, the environment, facilities and infrastructure, and the learning media used. (Umami 2025) . active and creative students will grow and develop with Good Because supported by facilities and infrastructure and teachers who use methods and materials effective learning, so quality education will increase. Increase quality education, then required learning media that can be used increase activity Study teaching at school. (Hanapi and Marsha 2025a) .

Instructional Media is one of aspect the main thing to do attention to the learning process For increase effectiveness achievement objective learning (Inayah and Prasetyo 2025) . Because activity learning in essence is the communication process that makes the teacher on duty convey message or material learning to students. The types of media are divided into 3, namely visual media, audio media and audio visual media. Accuracy use of learning media No let go from understanding We to variety and characteristics of the media (Dahliana et al., 2024) . This requires teachers to be able to think creative For compile learning media to interest students in learning. Use products and digital services (multimedia) made with hope Can help student For increase motivation, exploration as well as understanding student to material taught by the teacher (Nurokhman et al. 2025) .

Instructional Media can help For complement, maintain, even increase quality and maintaining the learning process, and the use of media in learning will increase results learn, improve activity students, and improve motivation Study child (Zebua 2025) . Correct use of learning media No let go from understanding about types and characteristics of media. In the learning process teaching, learning media is very important (Khaira, Hermita, and Alim 2025) . Because in activity ambiguity the material presented can helped with using learning media as intermediary. With media assistance, the material to be delivered to student can be disturbing. Learning media can represent what is not can delivered by the teacher through words or sentence certain (Taryzca Putri Laela Ramadhani et al., 2024). Even abstract material can be come true through the existence of learning media. With Thus, students more easy digest material than without learning media assistance (God's blessings 2025) .

Instructional Media multimedia- based sway is classified as as a simple, easy learning medium designed and utilized in accordance with need as well as can multiplied in accordance needs, but Not yet Lots a teacher who understands method use (Rosyadi et al. 2024) . Use of Sway multimedia application if used for teachers and students, because this program full with flexibility For presentation learning and can used Where just (Widiastuti et al., 2024) . Multimedia Sway is working application For make various presentation with easy, multiply multimedia content from all websites with just *drag-and-drop* and system his work simple. Teachers can using Sway multimedia to make content interactive such as relevant and interactive videos and images. In the educational process, teachers can apply it as evaluation

material explanation For increase understanding children in the digital era (Warosari et al., 2024) .

Media Sway is one of the media that can applied as a learning medium interactive. *Microsoft Office Sway* is initiative development that combines characteristics *Microsoft Office.* *Microsoft Office Sway* is application technology desarroll used in the online education process such as media for presentation. (Fitri and Hadi 2024) . Sway media represents presentation media that is produced and published online on the *Sway.com* web page. The exposure results can be distributed to receptor in the middle copy materials that have been prepared For distribution (Khusnaeni, 2025) . *Sway.com* offer various type design presentation, what only one can selected and employed by the makers content For to describe the content you will be presenting. For agree various included functions, Sway users need previous, and later data processing enter via email to *outlock.com* (Hanapi & Marsha, 2025) . Rocking, in the evolution of modern learning media, is presented as innovation in Microsoft 365 apps, which lets you replace Power Point for serve content with a better efficient way. Its use No need own knowledge in the program. (Herawati, Basori, and Wulansari 2023) .

Furthermore motivation Study student in IPS learning using sway media is the urge that arises from in self student the For Study use reach goals and achievements learning divided over the first 2 explain potential source Power nature, and identify the factors that cause change potential source Power natural (Fadilah, Sastria, and Pranata 2025) . The essence motivation Study is internal and external motivation for students who are Study For stage change behavior behavior, in general with a number of indicator or supporting elements (Bless, Prabawati, and Citraningrum 2025) . Motivation Study can arise Because factor intrinsic, in the form of desire and wish success and encouragement need learning, hope will ideals, whereas factor extrinsic is existence awards, environment conducive learning and activities interesting learning (Merlinda and Yusmar Yusuf 2025).

Related IPS material with goals and achievements the first lesson potential source Power nature in Indonesia in general general as explained by the subject teacher with give example generally understandable that is source Power nature that can updated land, water and forests. From to three source Power natural the can utilized and have function and can produce for the Community, resources Power natural This can Source Power nature that can regenerated or restored in a way experience in time relatively short. Next source Power nature that is not can updated namely gas, oil earth, and coal. From three source Power nature that is not can updated the have function, purpose and benefits it is very useful so that produce for the Community. Source Power nature that is not can updated Need very long time to Re -formed. Next, the second reason change potential source Power natural that is divided three population human, source Power nature, pollution and damage visit. From the three cause the can result in pollution and damage environment have the impact happen change potential source Power nature is increasingly experience decline.

The relationship between sway media and material IPS learning for class VII Aristotle and class VII Habibi how IPS subject teachers should have a strategy in teach with method explain with attractive media assistance banners for students can understand with the lessons taught especially in social studies learning, providing existing examples around and often used

everyday that they in a way straight one example concrete is water which is one of the source Power nature that can updated which is used by humans and not will finished If used in a way wiser, more friendly environment, can used repeatedly. Next example source Power nature that is not can updated that is source Power natural mine is one of them mine gold which has a process involving gold mineral deposition in rocks and then collected become ore gold. Amount gold available limited and can finished If continously mined and used.

It will run out If used in a way Continuously and More potential pollute environment. Next change potential source Power the most significant and frequent nature known by students damage environment Because the existing excavation process impacts the community. The teacher regretted the video that was designed in a sway medium that has almost the same with other digital media, one of which is PPT, but this media sway more interesting attention students and very helpful in the learning process.

In connection from motivation student in use of sway media in IPS learning can be measured from ability cognitive students who are lacking well, as shown with performance students, influenced by the learning process carried out in class. The learning process in class is very important in developing students (Iqbal, Jamilah, and Risala 2025) . Classroom learning must interest students and give meaningful learning experience for students, so that students can construct his knowledge myself. Ability cognitive is ability think students who include ability remember, understand, and apply (Halizah and Napfiah 2024) .

Based on results observation at SMP Negeri 14 Palu dated February 3, 2025 students when learning in nature hear teacher and student explanation seen passive, bored, and noisy. When told Study student only flip return book print, tell stories with friends, play, without many responded what the teacher explained. The problem above in line with the very common stigma that eye lessons taught boring and filled with activity memorize in a way Keep going continuously. Still Lots students who are lacking prepare self with the material to be taught. This is seen when the teacher asks beginning students about the material to be studied, many students who do not know. Besides that, many students are not Serious in learning because the teacher is still implementing a monotonous learning model, namely the conventional model.

Learning multimedia- based sway on Social Studies lessons towards motivation Study ability cognitive Social Studies students at the level School Intermediate First (junior high school) is often considered as eye demanding lessons understanding conceptual enough wide however, in In practice, social studies learning is still often done with method less conventional interesting for students. This is can lack of motivation learning and understanding less than optimal material. Therefore, innovation in method learning is needed, one of them with utilise multimedia technologies such as Sway to serve material with more interactive and easily understood. Some studies show that using multimedia -based media can help increase Power remember, understanding concept, and involvement active student in the learning process.

With Features interactive features that Microsoft Sway has, such as integration images, videos, audio, and attractive appearance, expected can help student more understand IPS material with a better way fun. Based on background behind said research, This aims To know

influence use of learning media multimedia- based Sway in social studies learning towards motivation learning and cognitive ability students in junior high school.

Literature Review

Instructional Media

Many experts and proportional definitions about learning media, some utility from learning media This is For refers to the device physical used For send content education, story like books, recordings, cassettes, films, slides, photos, videos, and computers. Learning media has play a role in transmission of information from sender to recipient, with objective For arouse curiosity know students and motivate student For learning. (Anar & Humairah, 2024) .

Categorizing learning media become eight category : moving audiovisual media, audiovisual media, semi- moving audio media, moving visual media, still images, semi-animated media, audio and print media. (Nurokhman et al. 2025) . Although various expert own distribution different types of learning media, the classification the own equation. Here a number of types of learning media :

a) Visual media is the only media can seen without need movement or sound. For example is picture or posters enjoyed through static vision

b) Audio media only involves hearing, such as voice notes, radio, and music.

c) Audiovisual media can be used through visual and auditory senses, such as videos, short films, and slide shows. (God's blessings 2025)

Sway Multimedia Media

Microsoft Office Sway is application new from Microsoft. There are institutions that can used by educators and students For various activities, including report distribution, presentation interactive, and import content from other sources (Kuipers, Greig, and Norris 2025) . Anyone can see user generated content microsoft office shake (Khairani, 2025) . Anyone with Gmail account can using the Sway platform. When students Study use media variations, students more interested For listen, and of course just maintain motivation (Amalia, 2024) .

Based on description above Microsoft Sway helps teachers manage and store material Study online. When studying, you need to access material studies online. Microsoft Sway allows teachers to create, store, and manage material learning on online platforms. In addition, Microsoft Sway allows student For Study in a way independent without limit time and place. Application This can accessed from computer or device mobile.

The difference between sway and Power point applications are :

a) Sway is available on Sway.com and Windows 10. This means that Sway can access any browser, including Mozilla, Chrome, Explorer, Opera Mini, etc.

b) Document Sway in automatic will stored on Sway.com, Power point is stored on your local computer or OneDrive. (Basyiroh, Musadad, and Muchtarom 2025)

Based on As explained above, Microsoft Sway is a digital presentation platform that allows you to learn Study from mixture learning. Sway allows user For make presentation interactive with attractive and easy display read.

Microsoft Sway also allows user For integrate various types of media, such as text, images, video, audio, and more Again to in presentation interactive and engaging. It will help increase interest and participation student in learning (Lopatin et al. 2025) . Microsoft Sway also supports learning collaborative. Users can invite students and colleagues For contribute to the creation of content, allows more interaction and discussion positive and dynamic. Therefore that, the shake No only educator class, but also experience diverse and interesting learning (Sirait, Apriyani, and Natsir 2024) .

Science Lessons

IPS is eye science-centered lessons social and humanities For reach objective education, so that material social studies lessons must customized with environment, needs, and characteristics participant educate. (Tri Wardati Khusniyah and Miratu Chaeroh 2025) .

From the description on can concluded that IPS is one of the load existing learning in thematic which contains combination from a number of discipline sciences social presented in a way integrated and customized with need participant educate For reach objective learners who have set up in curriculum. Social studies lessons are closely related the relation with education character and manners character because IPS is the lessons that govern method live a proper life with values that exist in society so that social studies learning is very important developed Good in matter draft and also practice.

At the level school intermediate First, social studies learning examines about knowledge knowledge that discusses about humans and their environment. Characteristics IPS learning is increase ability think social students. Social studies learning also has mark educational, practical, and philosophical. (Lestari 2024) . It is called as mark educative Because social studies learning forms attitude concern social, responsibility answer, and other appropriate attitudes with values in society, then the value contained in IPS learning is mark practical Because what is learned in adaptation from all problems that exist in society, then mark Philosophy Because IPS learning teaches student For observe and experience all diversity in society (Luthfia and Safitri 2024) .

From the understanding, IPS learning is learning that provides input and goals important in the world of education. The objectives of social studies learning are grouped into 3 categories that is :

1. The objectives of social studies learning are For develop ability knowledge participant educate Where ability This relate with individual participant educate.

2. For develop a sense of responsibility answer as inhabitant society, nation and state are related with self participant educate and various interests in society.

3. Develop ability self participant educate in a way personal with interest himself, society and also interest science. (Firmansyah and Safitri 2024)

Based on Law No. 20 of 2003 which contains objective education national on can known that objective education national is For develop source Power a dignified and self - reliant human being appropriate character with values and norms. This is of course it is very appropriate with objective social studies education and learning, namely realize participant educate people who are moral, have character and are capable communicate with good in society Because IPS learning contains a number of one aspect of it is aspect affective, namely social studies learning is required For convey the values that apply in society, capable communicate with good and respectful tall dignity dignity man (Aqilla F and Lasari 2024) .

The objectives of social studies learning are not let go from existence objective education nationally regulated in Constitution Number 20 of 2003 chapter 2 article 3 concerning system education national which contains that education national in frame to make smart life nation This functioning For to form and improve civilization a nation that has character as well as superior character and marriage, besides That education national functioning For develop Participants who also believe, are knowledgeable, capable, have good morals noble, creative, independent and become democratic and responsible citizens answer (Anar & Humairah, 2025) .

Motivation Study

Learning and motivation each other influence. Motivation is important situation For push somebody do a action, and learning is alignment behavior the behavior that occurs Because change or support For reach goal. (Bupu 2025) . Motivation drives somebody to do activity or business To reach a goal. (Istiqomah 2025) . How to measure motivation: Study through questionnaires or questionnaires, interviews, and observations.

Motivation Study is component important in the learning process Because can change behavior student with effective, active, fun, creative and innovative way. Motivation learning is also Power driving force, strength and strong desire For build availability student For learning. Situation the impact on performance students and results Study they. (Istiqomah 2025) .

Motivation Study is which variables are divided on two words namely motivation and learning which have their respective meanings (Istiqomah 2025) . Motivation Study is Power which mover located in self student in a way that gives rise to intention use carry out A action learning process activities so that the desired goal capable reached (Bless et al. 2025) . Motivation Study is A internal and external support will someone, which student is in the middle carry out activity Study use increase behavior (Fadilah et al. 2025) .

Aspects motivation Study namely:

a) Creative, participants educate Keep going think and create something new, so that make himself different with others.

b) I want sympathy from parents, teachers, and friends. As man usual, we want a praise as form award to what has been We do and also We achieve.

c) Have a sense of desire big tofu to matter new. Therefore that, always driven For study, to pursue his ideals.(Khoiriyah et al. 2025)

Aspects - aspects motivation learning four habits, namely :

1) Commitment Commitment is A which aspect is important will be the learning process. Students own awareness use learn, be able carry out workmanship tasks, and capable to carry out balancing task with existence high commitment ownership.

2) Encouragement Reach Something Student feel supported use fight to create Hope and his wishes.

3) Optimistic Attitude abstinence surrender and persevere will pursuit objective as well as always believe will existence challenges, but every man own each individual's ability or potential use growth and development which is more Good.

4) Initiative Student expected use emergence will initiative or idea or innovation which is capable support success and accomplishment will completionprocess education, because He has understand and comprehend himself, so that he is able to lead himself use carry out useful things will people around him and himself. (Asriani and Hidayati 2025)

Research Method

Study This use quasi- experimental approach which is development from true experiments. In the method this, there is group control, but No fully functioning For control variable outside that can influence implementation study experiment. Subject in study This involving group class control and experiment (Sugiyono, 2022).

Result

Reliability Statistics

Cronbach's Alpha	N of Items
.751	31

Based on the table of statistical reliability test results that accuracy tool evaluation although used over and over again, so reliability is constancy or stability or consistency a tool or instrument For used in measurement, reliability test data can seen in the reliable test technique used that is *Cronbach's Alpha* and obtained reliability of 0.751 which includes in category very high reliability. In N of Items alpha, the result is 31.

One-Sample Kolmogorov-Smirnov Test

		pretes aristotle)	postes (aristotle)	pretes (t habibi)	post (habibi)
N		31	31	30	30
Normal Parameters [a,b]	Mean	77.7419	95.2258	77.3333	95.2333
	Std. Deviation	5.84789	3.46131	3.91578	3.39049
Most Extreme Differences	Absolute	.125	.159	.201	.178
	Positive	.125	.159	.117	.178
	Negative	-.093	-.111	-.201	-.106
Test Statistics		.125	.159	.201	.178
Asymp. Sig. (2-tailed) [c]		.200 [d]	.844	.327	.160
Monte Carlo Sig. (2-tailed) [e]	Sig.	.248	.038	.004	.015
	99% Confidence Interval Lower Bound	.237	.033	.002	.012
	Upper Bound	.259	.043	.006	.018

a. Test distribution is Normal.
b. Calculated from data.
c. Lilliefors Significance Correction.
d. This is a lower bound of the true significance.
e. Lilliefors' method based on 10000 Monte Carlo samples with starting seed 2000000.

Based on the normality test carried out For know population studied normally distributed or no. This test is condition for parametric tests, if significance > 0.05, then population normally distributed, if significance < 0.05 then population distributed not normal, because significance > 0.05 then decided population distributed normal. From the ability cognitive student experiment on *Media sway student* statistical data 0.78 with significance 0.248, result data learn on motivation study statistical data 0.95 with significance 0.15.

Reliability Statistics

Cronbach's Alpha	N of Items
.966	35

Based on the table of statistical reliability test results that accuracy tool evaluation although used over and over again, so reliability is constancy or stability or consistency a tool or instrument For used in measurement, reliability test data can seen in the reliable test technique

used namely Cronbach's Alpha and obtained reliability of 0.966 which includes in category very high reliability. In N of Items alpha, the result is 35.

Independent T Test Motivation Study

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
								Std. Error Difference	95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference		Lower	Upper
VAR000 01	Equal variances assumed	2.025	.016	1,440	58	.155	1.16667	.810 30	-.45533	2.78866
	Equal variances not assumed			1,440	55,834	.156	1.16667	.810 30	-.45667	2.79000

Based on the independent t test motivation learning, for know population studied normally distributed or no. This test is condition for Equal variances assumed, if significance > 0.05, then population normally distributed, if significance < 0.05 then population distributed not normal, because significance > 0.05 then decided population normally distributed. From the ability cognitive student experiment on Media sway student data t-test for equality of means 2.025 with significance 0.155, result data learning on motivation study statistical data F 2.025 with significance 0.16.

Independent T Test Learning Outcome Test

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
								Std. Error Difference	95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference		Lower	Upper
Learni ng outcom es	Equal variances assumed	1.198	.278	4.415	58	.000	5.233 33	1.18 524	2.8608 2	7.60585
	Equal variances not assumed			4.415	57,956	.000	5.233 33	1.18 524	2.8607 8	7.60588

Based on the independent t test results learning that is done For know population studied normally distributed or no. This test is condition for Equal variances assumed, if significance > 0.05, then population normally distributed, if significance < 0.05 then population distributed

not normal, because significance > 0.05 then decided population normally distributed. From the ability cognitive student experiment on Media sway student data t-test for equality of means 4.415 with significance 0.58, result data learn on motivation study statistical data F 1.198 with significance 0.278.

Discussion

Use source Power education can give impact positive in psychology students, including estimate interest and motivation For learning. Educational media is component design, involving planning, planning and delivering message according to alumni needs. learning media can spur motivation participant educate and improve results Study in accordance with need material learning (Taryzca Putri Laela Ramadhani et al. 2024a) .

Improvement teacher's ability in using learning media is important For increasing effectiveness. Teachers have Lots skills, one of which is is ability For using learning media with true. (Hanapi & Marsha, 2025) . Teachers must own ability to use learning media effectively to convey information to students (Inayah and Prasetyo 2025) .

Instructional Media own the greatest influence on the mind and understanding. Compared with the person who sees or hear, the person who listens just No can maintain what they hear at the same time Because they No own level same understanding. (Nurjannah et al. 2025) . Instructional Media revitalize learning, updating mind, to strengthen knowledge in thought students, and make they joyful and happy. (Suryana, Ahmal, and Fikri 2025) .

Sway is one of Microsoft 365's cloud - based programs. Sway is breakthrough new by Microsoft, released around 2014 (Rizka SA, Surachmi, and Setiadi 2024) . Sway is web -based web applications, not device software needed installed on your PC or laptop (Sulastri, Andriana, and Syachruroji 2024) . Applications wobble helps you collect ideas, stories and presentations, format, format, stories and presentations on screen interactive web based. Touch simple text, images, documents, videos, diagrams or type content and shake other will make you look great in a number of step simple (Ayuwulandari, Susilawaty, and Nur 2025) . Sway is a perfect fit For entrepreneur, student, student who makes reports, resumes, presentations, and educators For make they more fun. Because your data is stored on Sway.com servers, it is not need install it so you don't Afraid data loss due to broken laptop (Alkathiry 2025) .

Microsoft Sway is selected as a learning medium Because a number of its advantages in support the learning process, especially in the relation with face and online blackout or mixing learning. One of the reason main is friendly user (Morrison et al. 2025) . With intuitive surface, user can easily make engaging and customized content appearance and style presentation to fit with need Study they (Himawan and Satrio 2020) .

Social studies learning is A combination discipline sciences social presented in a way scientific and systematic For reach objective education. IPS is A draft development knowledge knowledge, attitudes and skills social with objective to form personal a sensitive citizen to problem social issues that occur in society (Widiastuti et al., 2024) .

Conclusion

Likewise Research This implemented in Class VII Aristotle and VII Habibi at SMP Negeri 14 Palu implementing Independent Curriculum according to with the purpose student sued For think more creative, innovative, fast and responsive and besides That in Independent student curriculum trained For grow courage in himself. In the learning process student trained ability logical in solve a problems. In the curriculum independence is also given or entered elements life society, nation and state as well as element religious For to form students with character. Therefore , these are learning media multimedia based sway according implemented at SMP Negeri 14 Palu.

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