



EUROPEAN
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COVER PAGE AND DECLARATION

	Master of Science (M.S.) in Innovative Education & Teaching
Specialization:	
Module Code & Module Title:	EDUC560: Educational Technology: The 21st Century Classroom
Students' Full Name:	Amy Jane Sharp
Word Count:	4500
Date of Submission:	22.08.21

I confirm that this assignment is my own work, is not copied from any other person's work (published/unpublished), and has not been previously submitted for assessment elsewhere.

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EDUC560: EDUCATIONAL TECHNOLOGY

The 21st Century Classroom

Education Technology Integration

Introduction

In the sixth module, technology is one of the main aspects for transformative learning. The methods of the teachers have more variety now that the presence of technology is more established. They can connect to the students more because they have many ways to use to connect to the audience with the use of technology. As we all know we various learners have different learning styles, technology will find a way to capture their attention more and make learning more fun. Technology itself can help promote discussions through providing information that they need about the various research information that they can need, through the information age, they can also help spread the ideas by posting the information about their topic or plans and help them be aware on the subject matter itself. The solution oriented mindset can be cultivated by technology based age as it is a normal occurrence that we experience issues once in a while as an individual or as a community or focused on a certain group but the solution oriented mind wants to contribute a solution to the problem which can be attained through research. The information age can provide the back up or supporting details that they need in their research to make the research possible by providing various resources of credible information and making the research possible and create a solution in the problem which the society can benefit from – educational purposes, this is the best solution.

Technology made our lives easier as such inventions are made to lessen the chores that we have to do and in our own convenience in daily living. For example in terms of making food, various appliances and gadgets are made according to its function, entertainment tools are provided for amusement purposes, innovative technologies are created for the future of healthcare, transportation is continuing its development for easier trips and system bookings which the people in the community is benefiting from as it makes living easier in our daily lives. In this module, the main focus is how the benefits of technology is integrated on the education setting. The teachers will make sure that the quality of the chosen instructional material will be effective. To be able to attain learning gains from students, they need to pick the right material that fits the situation. Real classroom needs should be assessed because there are various types of learning. As they are professionals they need to analyze each instruction material and come to the classroom fully equipped with back up materials to prepare ourselves for the complications in the instruction materials to take place – they will be prepared and will provide an alternative solution because as they should be aware, prepared and shares the same eagerness that the students emits in learning.

Technology was able to add “flavor “ in learning as there are now many alternative methods to be able to learn from. The students can enjoy while learning through watching films using a wide projector through a laptop, create an interactive PowerPoint discussion, listen to a informative podcast in Spotify or other online platform and more. This proves that the level of education has “leveled up” with the mere presence of technology. Students has more response in learning with technological devices as it stimulates their senses more using various learning materials. It improves their eagerness in learning which transforms the overall classroom setting in general.



Part 1: Educational Technology Integration

Learning - Engaging and Empowering through technology

Learning through technology has been the “new normal setting “starting 2020 because of the presence of Covid 19. As part of the safety protocols – the mode of education was changed from face to face learning to online distance learning. The traditional face to face classes swiftly transitioned to online remote learning die to the World-Wide Pandemic presence of Covid 19. The experiences of Students and performance needs evaluation for this new mode is a new learning ground for the general population of the students. The cross-sectional study can assess the stress, satisfaction and academic performance

related opinion of the students based on their online community experience. The new learning environment is progressing into a new normal setting which means that the whole country will keep this going for a while along with the operations of prevention of Covid 19 in the community. Online Classes will be the new educational system of each university. The students are bound to have various experiences which creates a growing interest to collect the opinions and experiences of a selected numbers of students to evaluate the new educational system for education in the educational institutes.

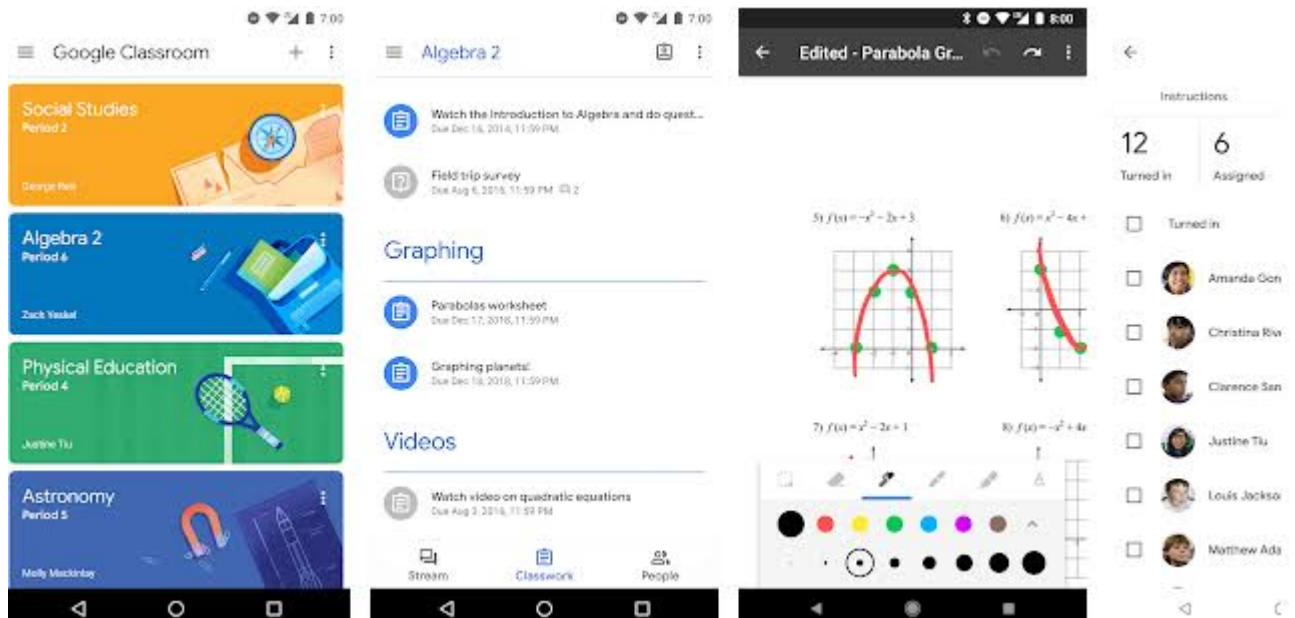
The Online Class - at first my reaction was vague because I do not know how to cope with the new education system being incorporated by our school. It was honestly confusing, and I felt lonely inside because there is no real face to face interactions in online class. The stress of the pandemic also came, I was worrying over my family's welfare and income and sometimes my personal problems became a hindrance with my motivation to read the modules and I sometimes had to submit it late. After a year of the pandemic, I learned how to balance and prioritize my education. I do everything once it was handed to me and I read everything in advance. I also learned on how to use notes to indicate what I did not get while studying so I can have the opportunity to read and re- learn it later. Online Class is a new method to the general public yet it is our choice if we will cope with it or continue to invalidate the system given by the government and educational institutes.



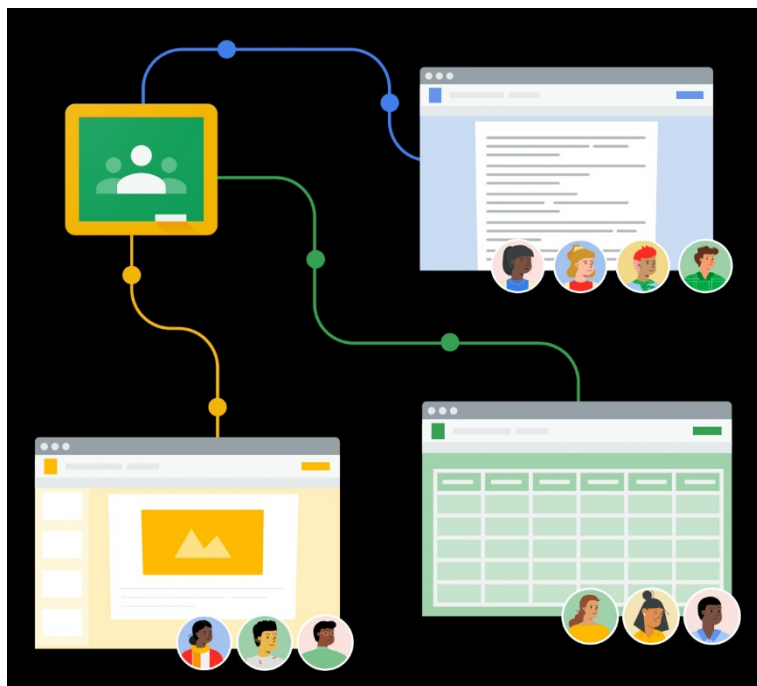
A google classroom is an app that we are currently using as the main " classroom storage " ever since we entered the mode of online distance learning. We were given our school emails and gmail accounts is necessary because we need to enter google classroom to be able to join classes. The app itself is minimal and the navigation settings is easy to find. It

is full of features with new integrations to access your modules and activities. It is also a schedule lists as it has a lot of tools to help your learning experience better. Google Classroom is a strong learning app which is why I used it as an example because many educational institutes use this as mode of learning. A google classroom is a online portal that consists of learning tools that allows access for teachers to schedule activities and have their activities passed by the students through that app. They can mark is as done and it will be seen by the teacher and grade the activities and return it to them. It does not require the use of paper in classes as everything is done online and it effectively helps the students to share knowledge in platforms and view and pass their activities online. More schools began to change their mode to online distance learning because google classroom is accessible even in mobile phones. The app itself can be downloaded in google play store or app store. The classroom app is also compatible with google docs, google sheets, google slides, google hangouts and more apps to use and optimize for learning.

The app is accessible in any device as long as it has a web browser, it can be accessed with just a browser or in the app itself. Even older devices can handle google classroom since the end user is google so they integrated the app with the basic standards that fits in the devices of the general audience. It can be in devices such as ios and android which also works in computers or MacBooks, etc. It is accessible that you can use it with your personal phone and do your assignment there. Google Classroom requires no fees as the education is prioritized by the app itself - free to use google tools are recommended along with the app for a good quality education sponsored by google. The classroom organizes everything in learning. It requires to sign up and identify yourself as a student or a teacher to be able to customize the usage for the app. No outsiders can gain access with a random classroom since it has codes to log in after you sign in. It protects the data of the classroom



The students receive an email notification in every activity that is being processed in the classroom, it also sends reminders of deadlines of activities to be passed. It is accessible to the points that everything can be seen - due date of tasks, score returns from the teacher, announcements in the classroom and many more. The email does it for the students, the teacher has less the responsibility to remind them since it is already stated in the google classroom. After they finish the assignment, they can upload the file in the portal and press turn it in for the teacher to see. It has a comment section where they can post feedbacks / comments



about the works and the student will be able to view this. Google also supports originality so they offer plagiarism check systems for teachers to use. One good feature of the google classroom is the front page platform where they can post announcements for the whole classroom to see. It will appear at the home screen and notifies through email notifications. It also has a comment section where students can ask questions below. Attachments are also allowed to be attached along the post such as YouTube references with an activity or other sources.

Not only it is accessible, it is also organized in the portal. Both parties (teachers and students) can interact well with less tasks and efforts because the google classroom portal is the one doing all the organizing and optimizing the availability of tools for learning. Google Classroom can experience difficulties too. First of all, it requires a good internet connection. It cannot be used offline because all files or media requires the internet. Students experience difficulties since the Philippines does not have a stable connection for the internet. Another difficulty is familiarity with the app, although it is easy to navigate through the app you need to check and review the features of the app because in my personal experience, I forgot to turn in a file and it stayed in the drafts and I was not able to submit it on time.

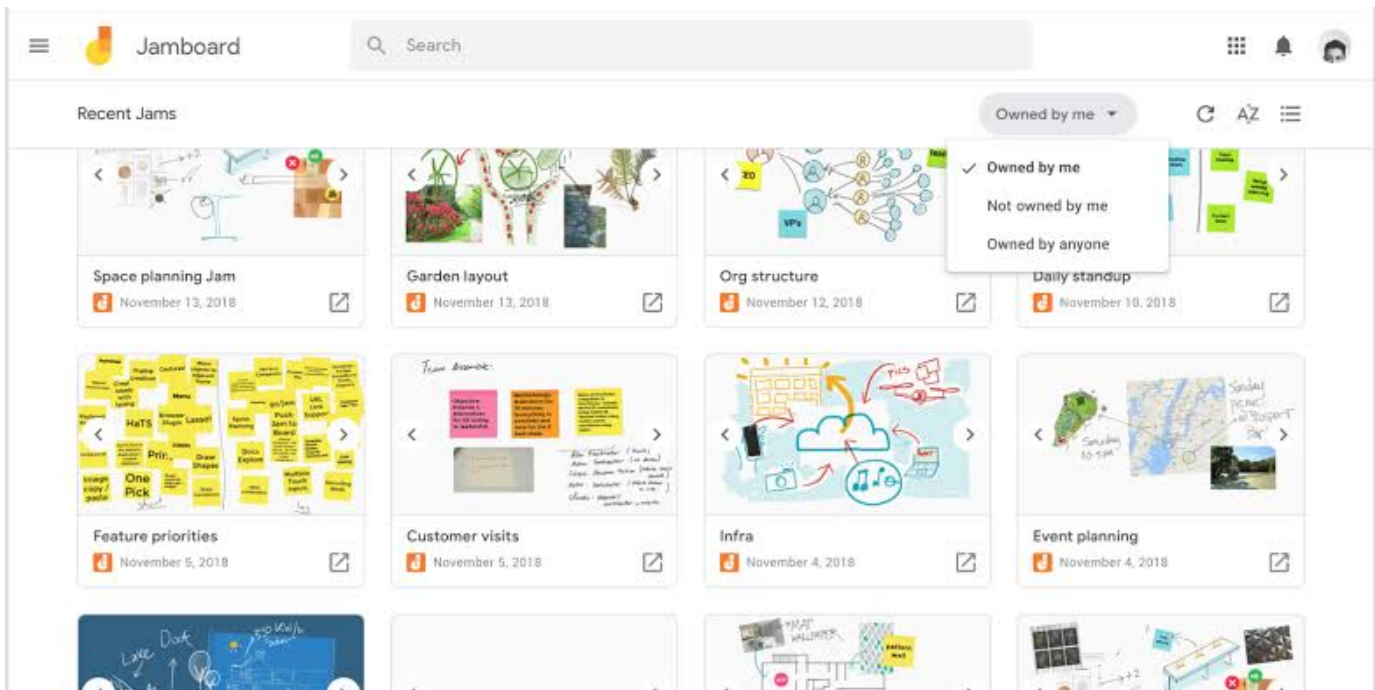
Teaching – Teaching with technology

The teacher will provide a lesson plan to guide what schedule of lessons he or she will teach in class. All will be followed in the lesson plan if there are activities available for students. The teacher will use a variety of materials after his lesson such as using the jamboard app to have students build a small concept map where they will provide the words they learned during class and exchange information and explanations on what the student learned as they answered the Jamboard App. Questions like "what 3 words can you add based on the topic we've studied?" or is "do you think this word is appropriate based on what we learned in

class? After the activities the teacher will call someone willing to present their answer and explain their answers in the jamboard app.

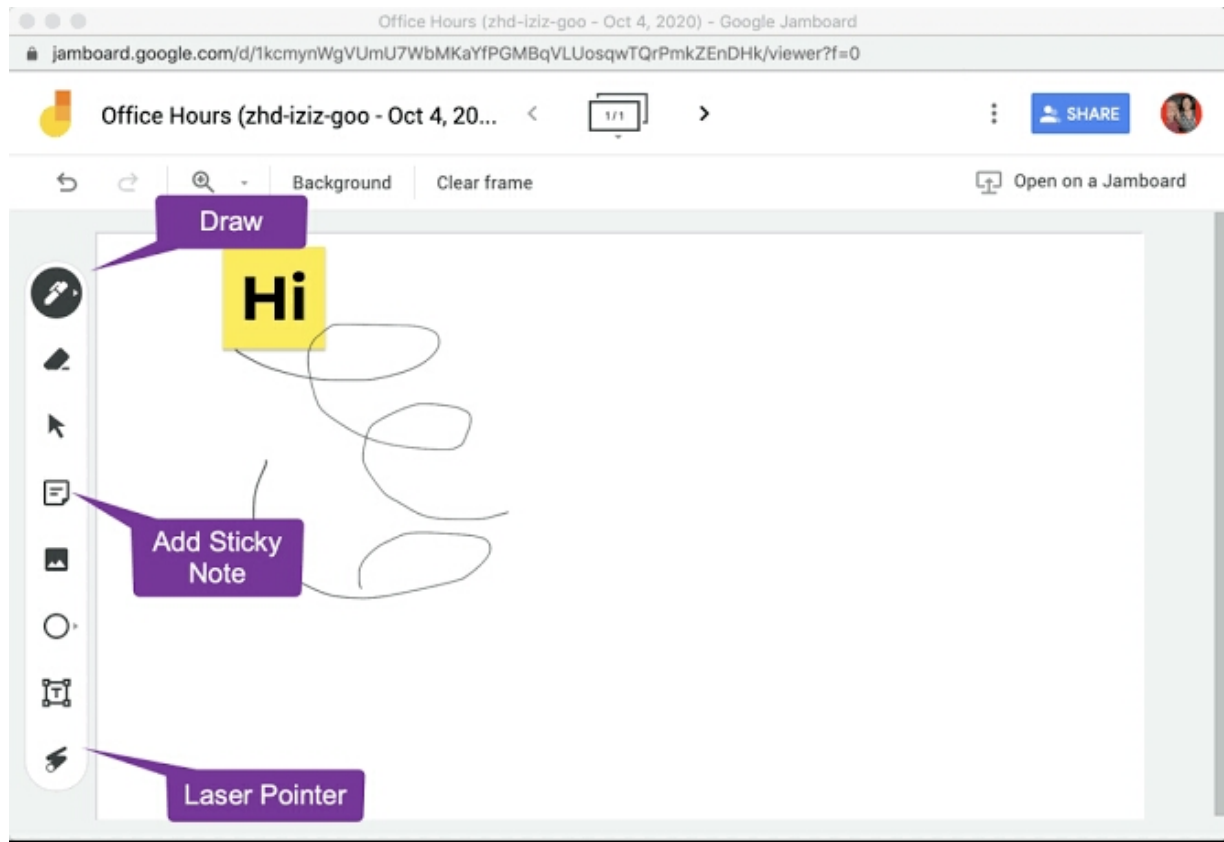


Having the sharing of what has been learned on the topic taught which is the reason for the sharing of knowledge, information and attitudes interaction of teacher and students. With the Jamboard app, students can collaborate on this platform and simultaneously draw and answer the teacher's demands. A Google Jamboard is an app that enables collaboration in terms of drawing something together. The app enables visual creation between real time users. Sync teaching is possible when students are collaborating together such as answering a concept map together. It supports remote teaching.



It functions as a whiteboard method as it displays in each screen of the individual user. The app itself is available in IOS and Android. It allows 16 users at once and displays the real time drawing of everyone. It can be good at math solving, art making, notes taking for the professor and interactive discussions with the class. It collaborates on project-based learning which allows interaction between the teachers and students to take place online. The app itself was released to the public in the Year 2017 which is marketed as interactive whiteboard system. Jamboard app allows you to search an image in google and recognizes the hand writing or shapes using tools and paste it on the white board.

The teachers use this because it makes learning more visible using collaborative learning with visual presentations as you can present this method during a live video call in the classroom and work together in project-based activities. It allows people to interact as it is a google app which makes it accessible and free. You can use it through tablets, phones with browsers



The difficulties that comes with the Jam Board app is the limited persons that it can hold. As stated, only 16 persons can use it at the same time but everyone will be able to view it. In a large number of students, the Jamboard app may not be as effective as it can be through collaborative learning due to the app limitations and a stable internet connection is required to be able to collaborate and not all people can easily find a stable connection which can lead to missed points in learning and misunderstandings during the discussion due to slow internet connection.

Assessment Measure in Learning

The need for assessment is identified for the learner to provide evidence that they have indeed learned

something through the lessons by explaining what they understood from the previous lessons they encountered. It gives an overall insight of the strengths of a student and what areas they are poor at so they will need to improve and work on it. It provides the assessment strategies of the effectiveness of their teaching methods and review the progress of the learning experience of the students. It could be an evaluation method for the students.

The students can be assessed through various methods such as quiz, assessment tests or activities. Teachers are focusing on the cognitive learning of the students which is why they conduct surprise exams and various tests to see what the students know. Assessment can happen at the end of the term to assess the learning of the students as a whole. They will be tested through examinations, portfolios and essays so they can develop the skills of cognitive thinking and learning.



Google Forms is an online tool associated with google which is used to create, access and share a content in a form-based approach. Google already provided pre-designed formats which is ready to be filled up with various information's such as quiz, evaluations, exams and more. It allows users to customized their forms as they provide a blank form in the app. You can use the elements to create your own template or design in the tool section. You can also include answers for long or short answer responses, adding images

or videos is also possible. The teachers can see the summary of responses of the students and monitor it real time. The visual representation of the summary is presented especially with multiple choice questions or check box surveys.

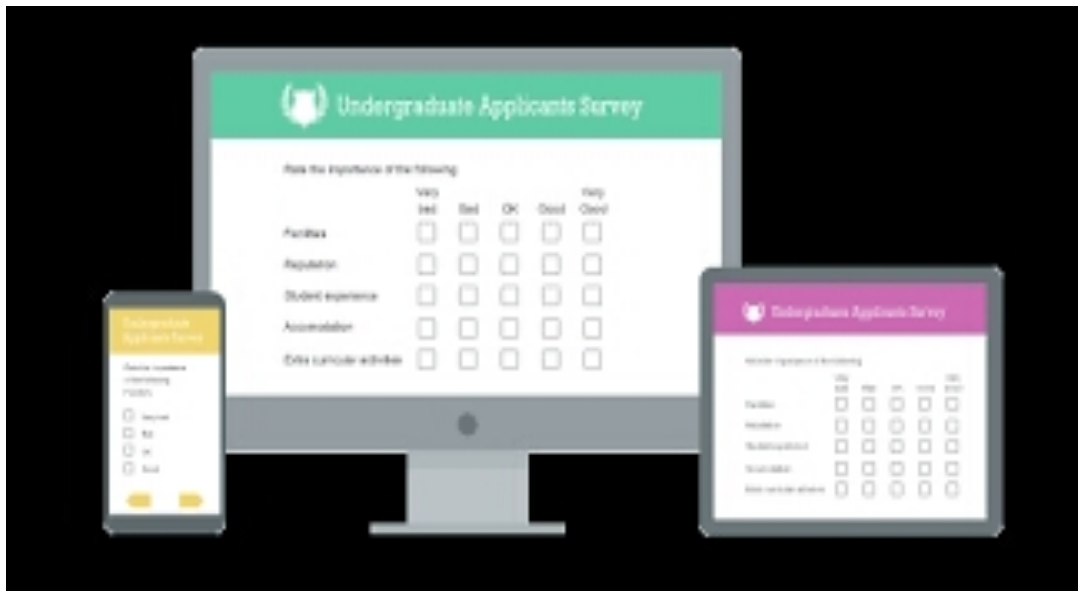
Google Forms is free and an easy way to prepare assessments through this app is it provides the tools and easy to use features. The app values privacy of information so you do not have to worry about your information. This app is easy because the students can use this method to type all their answers and submit it. It is easier to compute and analyze because the tools will send all responses as the teacher curate the results in the spreadsheet. Teacher can allow self grading quizzes in the app as it is easier that way.

The benefits of the app are immense as this free and easy to use app is an effective assessment app. It can reach unlimited number of students shared through links, results can be viewed by the students and the teacher can assess the provides the statistical display of results. Teachers can create quick assessment tests without worrying over it. The only downside in the google form is it requires the stable connection so the students will be able to view the form and the teacher can check the responses. One wrong refresh on the student's side will automatically refresh the whole exam and the data will be gone and the teacher will not be able to locate it.

Leadership - Creating a culture and Conditions for Innovation and Change

The system of education will be able to exist with the function of the head of the school. The head of the school is the one who plans and arranges the activities of the school annually. They will monitor each progress and assign officers that will be able to lead those plans. In the culture of the school, it is common to assign officers for the student council as they will lead the school in terms of the ha doing the student body and planning events that will improve the quality of education and the surroundings of the school. They can improve the premises by launching projects with the help if the whole student's body and plan it thoroughly for an effective execution of leadership and for change to take place.

The students will undergo through evaluation period in digital assessments of their opinion about the changes with the mode of education, the methods of learning of each teacher, the overall quality of education through online surveys. It can be conducted through online surveys and to be collected by a summary response and be placed in digital folders for thorough review to assess the leadership and conduct improvements in areas that needed it and note the strength in each progress or response of a student.



Critiquing Education Technology Integration

Reflection in Learning - Engaging and Empowering through technology

We need to be able to optimize all the modes of education that we can. I realized how big the world of technology is, education wise, there are so many apps that we can learn and research from. As the mode of online education only has come to light due to the presence of a global pandemic, I realized that we only used what was required by the school. Through reading the whole module, I realized that we must make a move to learn more about new apps that could help us adjust more into the online class. Millions of apps are existing in the store we just need to explore it more as it will help us while studying. In exploring and learning the ropes online, we will gain positive impacts from studying various technological use. I also came to realize the huge role of education because I thought technology is just a material to we use for activities but reading deeply, it plays a huge role and the relationship between the student and the teacher and I saw the significance of optimizing technology for the classroom setting to absorb the method of teaching that the teacher will be conducting

using the learning material that he or she will choose.

Overall, I came to realize the effectiveness of empowering and engaging through technology as my education and learning was effective thanks to the usage of various technology that my teacher used all throughout the lessons. The various usage of learning materials helped me to learn more about the lessons, makes a research about it and pass all the requirements using technology and I was able to absorb and pass accurate information thanks to the existence of technology.

Teaching – Teaching with technology

In order for the teachers to help the students to learn, their career needs a lot of training in terms of communication to be able to approach all types of students in the classroom settings. As a part of being a teacher, I realized the need to prepare the instruction materials which is aligned to the syllabus of the subject. They are allowed to make a lesson plans in correlation to your topic. There are topics that can be dull to discuss through words. In the classroom setting there are many types of learners. They need to maximize your knowledge about collaborative learning and engagement approaches to be able to provide a suitable instruction material to be able to grasp the full attention of their students. This is why instruction materials serves as a guide to learning for the students and teachers to engage with. However, mistakes can occur in instructional materials which will lead to misunderstandings and complications to the student's learning atmosphere. Sometimes there are false facts about history dates, or a misspelled name or mistranslated grammatical error. It is one of the major disadvantages of instructional materials in the classroom setting.

The teachers will check that the quality of the chosen instructional material online will be effective. To be able to attain learning gains from students, they need to pick the right material that fits the situation. Real classroom needs should be assessed because there are various types of learning. As a professional, they need to analyze each instruction material and come to the classroom fully equipped with back up materials to prepare ourselves for the complications in the instruction materials to take place - we will be prepared and will provide an alternative solution because as educators, they should be aware, prepared and shares the same eagerness that the students emits in learning.

I realized that it is not easy to prepare and adjust the technological devices and sources where the teacher will based their lessons from because they need to make sure that the chosen method will grab the interest of the students and they will have to minimize the risk of technological errors which is hard and I had

a new found admirations to teachers because their responsibility in online distance learning is not easy.

Assessment in Learning

Assessment in learning is not an easy task to evaluate, I realized the usage of technology made it easier and more organized since there are online tools that can help the teacher arrange and facilitate the assessment output to be conducted. The need for assessment is identified for the learner to provide evidence that they have indeed learned something through the lessons by explaining what they understood from the previous lessons they encountered. It gives an overall insight of the strengths of a student and what areas they are poor at so they will need to improve and work on it. It provides the assessment strategies of the effectiveness of their teaching methods and review the progress of the learning experience of the students. It could be an evaluation method for the students.

The students can be assessed through various methods such as quiz, assessment tests or activities. Teachers are focusing on the cognitive learning of the students which is why they conduct surprise exams and various tests to see what the students know. Assessment can happen at the end of the term to assess the learning of the students as a whole. They will be tested through examinations, portfolios and essays so they can develop the skills of cognitive thinking and learning which was made easier because of the presence of technology itself.

I realized the importance of choosing the right assessment and consolidating it with the faculty and testing it with the students so they can be familiar with the method of assessment since everything is new in online distance learning so demonstrations is a must for further improvements of assessments.

Reflection on Leadership

Leadership – I realized the huge need for evaluation since they have existing plans for innovation to improve the education quality of the students. They need to be thorough with each progress that they make, in each flaw in the system, they need to review it through evaluation so it will not cause complications in the

future. They need to make sure that the quality of education that they bring to the students is authentic and consistent to be able to maintain a good quality education within the institute where the learners experience continuous growth in learning and the overall strength of the institute as they evaluate each progress they take to make sure that they innovate positive changes for the future of the education.

CONCLUSION

This paper aims show the presence of technology and how it benefits the education of the students and the quality of education for the teachers for overall improvement in terms of quality. The 21st century classroom is indeed an innovative course that highlighted the means of transformative technology in terms of education. The advance in relationships and eagerness of the students to learn is credited to the existence of technology. As the world faces a worldwide pandemic, technology saved the education of the students as they shifted all modes of learning online and everything was also done online due to the demand for safety and more convenient method for the general public.

The education institutions who was innovators of exploration and invention is ahead for a brighter future as they accommodate app the needs of the learners and create new innovations of learning which improves the overall quality of education. They acquire new skills and advantages that makes their institute stand out as they provide authentic learning experiences and continues innovation and improvement in practice and new methods. They respond to the issues of the students and finds a way to fix it and improve their education system through innovations. They adapt to changes and implement their discoveries as a whole unit and lastly, they continuously examine and learn for the sake of improvement.

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