

Experiences of araling panlipunan teachers towards the delivery of instruction in new normal

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Abstract

The study aimed to determine experiences of Araling Panlipunan teachers toward the delivery of instruction in new normal in Magdalena Integrated National High School in Magdalena District, Division of Laguna.

Specifically, the study attempted to answer the questions; 1. What were the experiences of Araling Panlipunan teachers towards the delivery of instruction before, during and after the implementation of new normal education setting? 2. What were teachers' experiences in their teaching process including their lesson planning, implementing lesson, and evaluating their learners? 3. What were the teachers experience in terms of their psychological aspects specifically in locus of control and motivation in teaching? 4. What were the teacher experiences in social aspect when it comes to interaction and social context with their learners despite the new normal delivery of instruction?

A phenomenological study that used to determine the analysis of the experiences of Araling Panlipunan teachers towards the delivery of instruction in new normal. Which was the researcher employed the semi-structured interview to the teachers. Total respondents for this qualitative research were five (5) Araling Panlipunan teachers in Magdalena Integrated National High School.

Based on the gathered data of this study, the following findings were analyzed: 1. The experiences of Araling panlipunan teachers during the implementation of the delivery of instruction in new normal are culture shock, physical health risk and financial issue. 2. The experiences of Araling Panlipunan teachers in their teaching process including their lesson planning, implementing lesson, and evaluating their learners are meagerness. 3. The experiences of Araling Panlipunan teachers in terms of their psychological aspects specifically in locus of control and motivation in teaching are lackadaisical, distraught and volition in teaching. 4. The experiences of Araling Panlipunan teachers in social aspect when it comes to interaction and social context with their learners despite the new normal delivery of instruction are the limited interaction and online context. The analyzed data signifies that the experiences of Araling Panlipunan teachers towards the delivery of instruction in new normal has significant impact from different aspect.

The researcher concluded that most of the answers of the participants were a learned experienced from the sudden transition of educational setting. And the delivery of instruction in new normal create a huge challenge that transact their personal volition in teaching. However, this study must serve as an eye opener to everyone that teachers also a human who faces same challenges to all the people and they are really working hard to fulfill their duty as a teacher especially in this kind of challenge. Hopefully this research contributed to an understanding of the experiences of teachers towards to the delivery of instruction in new normal.

Based on the results of the study, the following were recommended: 1. The government must also focus to the teachers' necessities when it comes in teaching needs/materials. 2. Department of education must have a contingency plan for the readiness in any challenge that will come. 3. School administration shall deepen their weekly psychological test and may implement the project proposal entitled Workplace Wellness Program for the Teachers

Keywords: Phenomenological Study; Experiences; Araling panlipunan; Teachers; Psychological aspects; lackadaisical; distraught; volition in teaching; online context; culture shock.

1. Main text

Introduction

"One must know how to adjust to the changes and that despite the many uncertainties, teacher and parents must turn them into opportunities that will help continue achieving the United Nation's Sustainable Development Goal 4, which is "quality education"--*even amidst the pandemic.*"

-(Scouler, 2019)

Learners are used to learning at school, face-to-face with teachers in the delivery of lessons; therefore, the learners grasp the lesson of the day. However, changes arise because of the pandemic, in which learners remain at home to prepare their lessons with the aid of their learning facilitators. The changes that are taking place directly impact the delivery of the learning.

Teachers cannot teach the lesson the way they used to teach and most parents prefer written modules as an effective way of learning. Teachers' function is typically limited to planning modules, distributing and retrieving modules, answering parents' questions, and correcting learners' responses. Based on these, there is no contact with the learners. Without a teacher, the learners study their lessons all by themselves.

Teachers face difficulties under the new normal education system. These problems include teaching the learners when it is difficult for teachers to reach out to all the learners at home, even when teachers use different communication forms.

As schools have been closed to cope with the global pandemic, students, parents, and educators around the globe have felt the unexpected ripple effect of the pandemic. While governments, frontline workers, and health officials are doing their best to slow down the outbreak, education systems are trying to continue imparting quality education to all during these difficult times. Many students at home/living space have undergone psychological and emotional distress and cannot engage productively. The best practices for online homeschooling are yet to be explored (Petrie, 2020).

The study analyzes the experiences of Araling Panlipunan teachers in delivering instruction amidst the sudden transition in the educational setting during this tumultuous time. This study was conducted in the Division of Laguna during the School Year 2021-2022.

Background of the Study

Gone are the days of traditional classrooms and face-to-face learning. As the pandemic changed our lives, the demand for more flexible learning opportunities also increased. To address this growing necessity, schools all over the Philippines shifted to distance learning. In this remote learning method, students do not need to attend lectures and can study at their own pace. Keep reading more about this setup and its difference from online learning. This study also discussed the pros and cons and list tools and resources that can be used during the pandemic.

Sir Isaac Pitman provided the first distance education course in the modern sense in the 1840s. He taught a system of shorthand by mailing texts transcribed into shorthand on postcards and receiving transcriptions from his students in return for correction. The element of student feedback was a crucial innovation of Pitman's system. This scheme was made possible by introducing

uniform postage rates across England.

Though there are numerous examples of the usage of machines and tools in education throughout history, e-learning in the modern sense of the term is a relatively new concept. Slide projectors and television-based classes have been in use since the 1950s. However, one of the first instances of online learning in the world

can be traced back to 1960, at the University of Illinois, USA. Though the internet was not invented back then, students began learning from computer terminals interlinked to form a network.

The negative portrayal of teachers in the media has significantly impacted teachers' well-being. It is considered a potential threat to teachers' ongoing recruitment and retention. Many teachers have felt unsupported by the government throughout this crisis, finding communication unclear and inconsistent. They would like concise, consistent, and timely guidance in the future, including a clear plan to follow. Teachers called for more collaboration between policymakers and practitioners, with teachers' views being valued and trusted, and would like to see a better public understanding of what teaching entails, leading to a more supportive and positive image of the profession.

Theoretical Framework

Experience, as treated by Vygotsky, is unlike the common use of the term referring to participation in events or activities and, in the process, having certain feelings. Instead, experience is a category of thinking, a minimal unit of analysis that includes people (their intellectual, affective, and practical characteristics), their material and social environment, their transactional relations (mutual effects on each other), and affect. Thus, experience is not concealed within individuals but extends in space and time across individuals and settings during temporally unfolding societal relations, which are perfused with affect (Vygotskij, 1935/2001).

Coming to grips with what it means to have an experience implies providing an account of how societal events, including school science lessons, are produced in ongoing society-specific interactional forms and how these events give rise to social interaction. To this end, there is a need to theorize experience, not as a synchronic category, an entity that can be named before its course has reached an end. It must be considered an unfolding unit that encompasses change itself, rather than changes being an external factor causing or affecting experience.

This study is also anchored on Simonson's (2015) distance education theory. Simonson theorized that if distance learning is to be successful, then the learning must be equivalent to learning in a traditional setting. Learning will always vary among individuals, whether physically sitting next to each other or communicating solely through the internet. Everyone integrates new knowledge into their existing schema differently. Simonson's basic premise is that if the learning experiences are not identical, because that is not possible for unique humans, but instead learning course midway into a traditional course with little if any lacking knowledge. However, this does not mean that the two courses should be identical. Instead, the distance course needs to be specially designed so that the learning experience is, in fact, equivalent to the traditional course.

Constructivist learning theory refers to continually building knowledge and skills from experiences. Learning, for an educator, results from daily experiences and interactions in the school setting. Teachers continually construct their knowledge of teaching and learning and abilities as educators through their experiences as one.

This process may be very intentional or more intuitive. Nevertheless, as Dewey (1938) points out, "No experience is educative that does not tend both to the knowledge of more facts and entertaining of more ideas and to a better, a more orderly, arrangement of them" (p. 82). Bruner (1985) emphasizes that learning and building knowledge requires some organizing of experiences. He purports that learning dynamics involve a preconceived yet often unconscious set of rules about how the world operates. Hence, constructing learning involves an "unstable equilibrium between assimilating experience to the rules and accommodating the rules to experience," which then demands to be arranged and made available (p. 7). As applied to this study, constructivist theory supports the notion that teachers attempted to draw on the rules that had guided their practice prior to the disruption of the pandemic. However, as the rules had changed so quickly and drastically, they were forced to accommodate and adapt to some new rules surrounding the novel experience of distance teaching and learning.

Conceptual Framework

The illustration represents the research paradigm that was used in the study. The figures showed how the researcher visualized the process upon exploring the experiences of Araling Panlipunan teachers regarding the delivery of instruction in the new normal, this includes the Data gathering procedure using the Colaizzi's method to know the experiences of Araling Panlipunan teachers

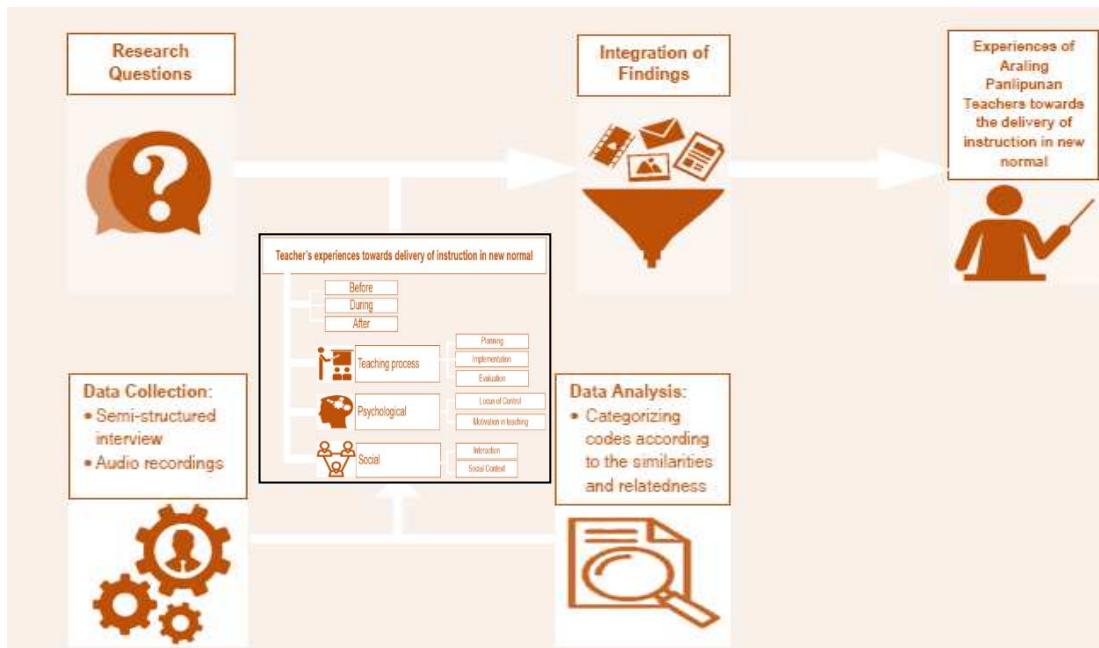


Fig. 1. Research Paradigm

Research Design

This study used a phenomenological study used to determine the analysis of the experiences of Araling Panlipunan teachers towards the delivery of instruction in new normal. The researcher employed the semi-structured interview to the teachers.

This phenomenological study sought to understand the experiences of teachers as they made decisions regarding content, activities, and assessment when forced to transition to distance learning amidst the COVID-19 / Coronavirus pandemic. As defined by Van Manen and Adams (2010), "The phenomenological attitude comprises a fascination with the uniqueness, the particularity of an experience or phenomenon" (p. 449). Not only was I intrigued by the uniqueness of the total educational disruption caused by the pandemic, but also of great interest were the unique and experiences of educators living and operating within that disruption. A qualitative research approach that helps in describing the lived experiences of an individual is known as phenomenological research. The phenomenological method focuses on studying the phenomena that have impacted an individual. This approach highlights the specifics and identifies a phenomenon as perceived by an individual in a situation. It can also be used to study the commonality in the behaviors of a group of people.

Phenomenological research has its roots in psychology, education and philosophy. Its aim is to extract the purest data that hasn't been attained before. Sometimes researchers record personal notes about what they learn from the subjects.

Results and Discussion

This research was an explanatory and contextualized qualitative study. The researcher used the Collaizi's method to achieve the objectives of the study. Five (5) teachers teaching Araling Panlipunan in four (4) different grade level in Magdalena Integrated National High School were selected as the participants in semi-structured, open, qualitative interviews. This research presented the experiences of Araling Panlipunan towards the delivery of instruction in new normal setting. Through an in-depth analysis, researcher found out that the sudden transition in tumultuous times create a culture shock to all the people specially in field of teaching.

The experiences of Araling Panlipunan teachers towards the delivery of instruction before, during and after the implementation of new normal education setting results to defiance. They faced culture shock because of sudden transition of new normal education setting because this set up is new for them and it was not a blink-eyed adaptation. Araling Panlipunan teachers also experienced a risk in their physical health because of required home visitation for learners and due to the threat of pandemic, they are still worried that they may carry the virus anytime if they are exposed to the field. And lastly, they are worried for their learners who are financially unstable because due to conformity in new modality where needed a gadgets and internet connection.

In the teaching process of Araling Panlipunan, teachers have various experiences in lesson planning, implementation of lessons, and evaluation of the learners. They can only plan the lessons (weekly home of learners learning plan) and implement the lessons via the preferred modality of school, and the evaluation which may also post a question as to which one to be graded, is it the quality of work/output or the effort of the learners. At the time of delivery of instruction in the new normal, they experienced limitations in the teaching process.

Psychologically, the Araling panlipunan teachers experienced the effect of the pandemic on mental health. Most experienced distraught and lackadaisical in their locus of control. However, the motivation in teaching Araling panlipunan teachers rose their volition. This only explains the resiliency of Araling panlipunan teachers towards the sudden transition of the educational setting, specifically in the delivery of instruction.

The social aspect of teachers in interacting and socializing with the learners only occur online. This explains that the interaction is limited because they can only talk online, and not all of the learners can afford to have an internet connection. Furthermore, online context is their only way to communicate. It prevents learners and teachers from effective socializing as a result of no personal attachment between them because they can only socialize online regarding the delivery of instruction in the new normal.

Conclusion

The pandemic crisis has impacted not only the economic, psychological, and social aspects of the world but also the educational sector to a great extent. Pandemic led to school closures, and eventually, the traditional delivery of instruction in education has been transformed. In turn, learning spaces were reorganized. The researcher concluded that most participants' answers were learned and experienced from the sudden transition to the educational setting. Moreover, delivering instruction in the new normal creates a considerable challenge that transacts their volition in teaching. However, this study must serve as an eye-opener to everyone that teachers are also humans who face some challenges like all the others. They are working hard to fulfill their duty as a teacher, especially in this kind of challenge. Hopefully, this research contributed to an understanding of teachers' experiences regarding the delivery of instruction in the new normal.

Recommendations

Based on the findings and conclusion drawn, the researchers made the following recommendations.

1. The government shall also focus on the teachers' necessities regarding teaching needs/materials.
2. The psychological group from the Department of Education can view the findings and results of this study as a basis to understand more and prescribe proper solutions for the proper mental health of the teachers.

3. School administration shall deepen their weekly psychological test and may implement the project proposal entitled Workplace Wellness Program for the Teachers.
4. Araling Panlipunan teachers shall be aware and conscious of their mental health.
5. A follow-up study about the experiences of teachers' overall experience in this challenge from before, during, and after the pandemic may be conducted.

References

Abdul Majeed Al-Tayib Umar (2018) The Impact of Assessment for Learning on Students' Achievement in English for Specific Purposes A Case Study of Pre-Medical Students at Khartoum University: Sudan
 DOI:10.5539/elt.v11n2p15

Abude, Angilene J. (2021) The Effectiveness of Modular Distance Learning Modality to the Academic Performance of Students: A Literature Review

Aijaz, Rukhma, Gujjar, and Aijaz Ahmed (2014) A Study to Investigate the Relationship between Locus of Control and Academic Achievement of Students Journal on Educational Psychology, v8 n1 p1-9

Al- Adwan J.A (2013) International Journal of Education and Development using Information and Communication Technology Vol. 9, Issue 2, pp. 4-18 Exploring students' acceptance of e-learning using Technology Acceptance Model in Jordanian Universities, UK Jo Smedley University of South Wales, UK
<https://files.eric.ed.gov/fulltext/EJ1071365.pdf>

American Federation of Teachers (2017) Social Context of the Classroom,
<https://www.aft.org/sites/default/files/socialcontext.pdf>

Anzaldo, Geraldine (May 2021) Modular Distance Learning in the New Normal Education Amidst Covid-19

Aparicio, M., Bacao, F., & Oliveira, T. (2016). An e-Learning Theoretical Framework. Educational Technology & Society, 19 (1), 292–307.

Bakken, A. (2003), "Minoritetsparkling ungdom I skolen Reproduksjon av u likhet ellersosial mobilitet." Oslo, NOVA Rapport 15/03

Bates, Tony (2021) Online learning and distance learning resource blendedlearning.org.uk/online-learning/distance-learning-in-conversation-with-dr-tony-bates/

Berdnt, Thomas J. (2007). Child Development. Brown & Benchmark Publishers. (pp. 415, 435-436).

Best (March 2020) 5 Challenges of Online Teaching (and How to Rise Above Them)

Bucholska R.A. (2019) Interactive Learning Materials for Engagement.

Retrieved 18 November 2021, <https://elearningindustry.com/interactive-learning-materials-engagement>

Calugan, Janice A., Claris Caga Belgica, Juliet Ugay Dumo, Larilyn Akiapat

Simber (Dec 2020) Online Distance Learning: Thematic Study on the Challenges Faced By Educare College Inc. Primary Pupils

Cheng, Y.-M. (2014), "Roles of interactivity and usage experience in e-learning acceptance: a longitudinal study", International Journal of Web Information Systems, Vol. 10 No. 1, pp. 2-23.
<https://doi.org/10.1108/IJWIS-05-2013-0015>

childhope.org.ph (2021), Alternative Education: Online distance learning under new normal. www.childhope.org.ph

Chin, Mean (2020) Students' New Normal : Modular Distance Learning
<https://www.uniquephilippines.com/students-new-normal-modular-distance-learning/>

Cider J. (2021) The Importance of Interactive Learning in School.
<https://www.qaeducation.co.uk/article/importance-interactive-learning-school>

Claris Caga Belgica, Janice A. Calugan, Juliet Ugay Dumo, Larilyn Akiapat Simber (2020) Online Distance Learning: Thematic Study on the Challenges Faced By Educare College Inc

Cruz, Kaithreen (2021) Distance learning struggle continues.

cte.smu.edu.sg (2017) A lesson planning, <https://cte.smu.edu.sg/approach-teaching/integrated-design/lesson-planning>

de Barba (2017) Autonomous learning and achievement motivation in online learning environments

Diggory, Katherine (2018) "The Importance of Human Interaction and Relationships." Explore Life, Explore Life, www.explore-life.com/en/articles/the-importance-of-humaninteraction-and-relationships.

Donkor F. (2011) Assessment of Learner Acceptance and Satisfaction with Video-Based Instructional Materials for Teaching Practical Skills. *International Review of Research in Open and Distance Learning* 12(5)
DOI:10.19173/irrodl.v12i5.953

Earle, et. al. (2015) Social Context Theory: A systems model of social change based on social needs and social issues

Firat S.A (2020) Multicultural investigation of the students' acceptance of using digital learning materials in laboratory classes

Gadais, Tegwen , Theo Caron , Marie-Belle Ayoub, Antony Karelis, and Luc Nadeau (2020) The Role of the Teacher in the Implementation of a School-Based Intervention on the Physical Activity Practice of Children DOI: 10.3390/ijerph17197344

Galvão de Barba (2017) Autonomous learning and achievement motivation in online learning environments

Garcia Adolfo M., Sandra Baez, and Agustín Ibáñez (2018) How Does Social Context Influence Our Brain and Behavior?

Geoff Masters AO (2014) Getting to the essence of assessment
Huang, Miner, Xi Zheng and Tingyun Hu (2020) Absence and Presence of Human Interaction: The Relationship Between Loneliness and Empathy
<https://doi.org/10.3389/fpsyg.2020.00768>

IMPOFF (2020) Importance of Lesson Plan for Teachers and Students, <https://impooff.com/category/life>

Kanellopoulou, Eurydice-Maria D. and Maria Darra (2019) Benefits, Difficulties and Conditions of Lesson Study Implementation in Basic Teacher Education: A Review, Vol. 8, No. 4; 2019

Kelly Nelson-Danley (2020) How to Increase Motivation and Collaboration Among Staff During COVID-19 <https://www.graduateprogram.org/2020/12/how-to-increase-motivation-and-collaboration-among-staff-during-covid-19/>

Linways Team (2017) Planning and strategy in teaching-learning process, <https://stories.linways.in/planning-and-strategy-in-teaching-learning-process-72a003d3343e>

Majoribank (2006), William, Jeynes (2002) "Areas of Sociology and Anthropology" (www.academic.org.ph) Retrieved June 8, 2013.

Mark Crocker (2019) Alumni Experiences Teaching Ideas

Mataac, Joey M (2021) Impact of Modular Distance Learning and the Reading Development of the Beginning Readers

Mazgon J. & Stefanc D., (2012), Importance of the various characteristics of Educational materials: different opinions, different perspectives. The Turkish Online Journal of Educational Technology Vol11. <https://files.eric.ed.gov/fulltext/EJ989210.pdf>

Metin, Mustafa (2013) Teachers' Difficulties in Preparation and Implementation of Performance Task, DOI: 10.12738/estp.2013.3.1452

Miller, Jessica, and Wunderle Straessle 2014 Teachers' perspectives of effective lesson planning: A comparative analysis. <https://dx.doi.org/doi:10.25774/w4-8swa-7371>

Motara, Michelle Christine (2015) Teachers' perceptions of teacher-pupil interaction in high schools in Johannesburg

Mousa et. al. (2020) Advance Acceptance Status Model for E-learning Based on University Academics and Students. IOP Conf. Ser.: Mater. Sci. Eng. 671012031 <https://iopscience.iop.org/article/10.1088/1757-899X/671/1/012031/pdf>

Padzmahal G. Jayani(2021) Teachers' Perception On Modular Distance Learning Approach At Mindanao State University-Sulu: Its Readiness And Challenges, Vol.4 No.3

Ponopio, (2010), "Society and Culture: Introduction to Sociology and Anthropology, Quezon City: KMC Press Inc."

Reay, D. (2010), "Educational and Cultural Capital: The implications of changing trends in Educational Policies" Cultural Trends (3 (2) 73-86

Reknes, Iselin, Visockaite, Gintare, Liefoghe, Andreas and Andrey Lovakov (2019), Locus of Control Moderates the Relationship Between Exposure to Bullying Behaviors and Psychological Strain

DOI:10.3389/fpsyg.2019.01323

Riise, Anne and Veronika Paulsen (2017) Education policy implementation: a literature review and proposed framework, DOI:10.1787/fc467a64-en

Romane Viennet and Beatriz Pont (2017) Education policy implementation: a literature review and proposed framework oecd education working paper no. 162

Sapera,Shane Carmie, et,al (2020) Nanay, Handa Na Ba Kayong Maging Tagapagdaloy? Supercharging Filipino Parents is Key for Successful Modular Distance Learning

Scoular, Claire (2019) Multiple learners in modular learning modality thesis
[https://www.studocu.com/ Multiple learners in modular learning modality thesis](https://www.studocu.com/Multiple%20learners%20in%20modular%20learning%20modality%20thesis)
 serc.carleton.edu (2016) Improving Lesson Design and Implementation,
<https://serc.carleton.edu/58681>

Shehzadi, S. (2020). The role of digital learning toward students' satisfaction and university brand image at educational institutes of Pakistan: a post-effect of COVID-19. *Asian Educ. Dev. Stud.*
 DOI: 10.1108/AEDS-04- 2020-0063

Sumaong et,al. (2020) The Implementation of Modular Distance Learning in the Philippine Secondary Public Schools, published Nov 29, 2020

Talimodao, Allen Jake S. and Dennis V. Madrigal (2021) Printed Modular Distance Learning in Philippine Public Elementary Schools in Time of COVID-19 Pandemic: Quality, Implementation, and Challenges

Tanya Vaughan and Bianca Albers (2017) Research to practice – implementation in education,
<http://works.bepress.com/tanya-vaughan/23/>

Tety JL. (2016), Role of Instructional Materials in Academic Performance in community secondary schools in Rombo District. A Dissertation Submitted In partial fulfilment of the requirements for the Degree of Master of Education In Administration, Planning And Policy Studies Of The Open University Of Tanzania.
<https://core.ac.uk/download/pdf/83632862.pdf>

Torres, Rennier (2015) PressReader.com - Your favorite newspapers and magazines. (2021). Retrieved 8 July 2021, from <https://www.pressreader.com/philippines/sunstar-pampanga/20150820/281646778880452>

Trentin G. (2010) Networked Collaborative Learning
[https://www.sciencedirect.com /social-sciences/learning-objective](https://www.sciencedirect.com/social-sciences/learning-objective)

Turley,Chad and Charles Graham (2019) Interaction, Student Satisfaction, and Teacher Time Investment in Online High School Courses, Volume 5, Issue 2, Association for the Advancement of Computing in Education (AACE), Waynesville, NC USA

Ventikesh, R. (2018) Need for Accessible Learning Material Retrieved 11 April 2022, <https://247accessibledocuments.com/need-for-accessible-learning-material/>

Viennet, romane and Beatriz Ponr (December 2017) Education policy implementation: a literature review and proposed framework, DOI:10.1787/fc467a64-en

Vladova, G., Ullrich, A., Bender, B., & Gronau, N. (2021) Students' Acceptance of Technology-Mediated Teaching – How It Was Influenced During the COVID-19 Pandemic in 2020: A Study From Germany. *Frontiers In Psychology*, 12. doi: 10.3389/fpsyg.2021.636086

Volkan Cicek (2013) Effective Use of Lesson Plans to Enhance Education
International Journal of Economy, Management and Social Sciences, Pages: 334-341

Walker, Charlotte (2020) The Importance of Human Interaction, NOVEMBER 8, 2020

Weidlich, et.al. (2020) Technology Matters - The Impact of Transactional Distance on Satisfaction in Online Distance Learning

[www.algonquincollege.com](https://www.algonquincollege.com/profres/lesson-planning/) (2015) lesson planning <https://www.algonquincollege.com/profres/lesson-planning/>

www.richlandmontessorischool.com. (2020) Distance Learning Option 1 MODULAR Distance Learning (MDL) www.richlandmontessorischool.com/ Distance Learning Option 1

Zalat, M. & Bolbol, S. (2021). The experiences, challenges, and acceptance of e-learning as a tool for teaching during the COVID-19 pandemic among university medical staff. *PLOS ONE*, 16(3), e0248758.
DOI: 10.1371/journal.pone.0248758

Zheng, et. Al. (2020) Absence and Presence of Human Interaction: The Relationship Between Loneliness and Empathy

Zhou H. (2017), Why Does Writing Good Learning Objectives Matter? - Duke Learning Innovation. Retrieved 18 November 2021, <https://learninginnovation.duke.edu/blog/2017/03/learning-objectives/>

Zimmerman, B.J. (2018) Self-Regulated Learning and Academic Achievemen
An Overview. *Educ. Psychol.* 1990, 25, 3–17. as cited by Shengru Li 1,* ID , Shinobu Yamaguchi 2 and Jun-ichi Takada 3 2018.