

WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
**GRADUATE SCHOOL**  
Iloilo City

REDESIGNING OF SIBOL CURRICULUM AS SOCIAL INNOVATION IN AN  
EXTENSION PROGRAM

A Dissertation Presented to the  
Faculty of the Graduate School  
College of Education  
West Visayas State University  
La Paz, Iloilo City

In Partial Fulfilment  
of the Requirements for the Degree  
Doctor of Philosophy in Education  
(Curriculum Development)

by

Ditas L. Ligue

July 2022

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Ligue, Ditas L., "*Redesigning the Sibol Curriculum as Social Innovation in an Extension Program* " Unpublished Dissertation in Doctor of Philosophy (Curriculum Development) of College of Education, West Visayas State University La Paz, Iloilo City July 2022

**Abstract**

This study was aimed in redesigning GK *Sibol* curriculum as a social innovation in the COE Extension program and aligning it with the ECCD Council mandated programs that covers health, nutrition, early education, and social services for children ages 3-4 years. This educational design research was anchored on the ADDIE model for its development and the "serve and return concept" was instilled in the heart of its play functions and interactions as learning tasks and activities were constructed. Anchoring on the constructivist perspective, both theoretical model and concept were embedded in the enhanced delivery of the program. The Preschool Curriculum Review Rubric Planning Tool from the Virginia Department of Education (2007) was modified and was validated to suit the need of the study. This evaluation tool is composed of 25 statements describing the three identified parameters of the curriculum, namely: (A) Content, Scope, and Sequence, (B) Teaching and Learning Activities, and (C) Assessment Tasks. Experts in the area of early childhood and curriculum development were chosen to validate the redesigned *GK Sibol* Curriculum. The evaluation results showed an overall mean of (SD=0.16, M=3.81) described as Highly Acceptable. When broken down according to the identified parameters, (A) Content, Scope and Sequence has the score of (SD= 0.18, M=3.78) Highly Acceptable; (B) Teaching and Learning

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Activities (SD=0.19, M=3.82) Highly Acceptable and (C) Assessment Tasks (SD=0.36, M=3.84) Highly Acceptable. With the Highly Acceptable results, the redesigned curriculum is recommended for utilization in the COE Extension program and further research on its impact be conducted.

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Austrew, A. (2021, January 19). 8 Pandemic Words & Phrases People Absolutely Never Want To Hear Again. Retrieved January 31, 2021, from

<https://www.dictionary.com/e/pandemic-words-people-hate/>

Aziz, S., Mahmood, M., & Rehman, Z. (2018). Implementation of CIPP Model for Quality Evaluation at School Level: A Case Study. *Journal of Education and Educational Development, Vol. 5* ( No. 1 ), 189–206.

<https://doi.org/https://files.eric.ed.gov/fulltext/EJ1180614.pdf>

Bakker, A. (2018). Design research in education. *Design research in education: A practical guide for early career researchers*, 3-22.

Balachander, J. (1999). World Bank support for early childhood development: Case studies from Kenya, India, and the Philippines. *Food and Nutrition Bulletin, 20*(1), 136–145. <https://doi.org/10.1177/156482659902000112>

Bamber, P. M. (2016). Transformative Education through International Service-Learning. Retrieved January 17, 2021, from <https://bit.ly/3nNu28Z>

Barnett, E., & Casper, M. (2001, March). *Health Letters*. American Journal of Public Health.

<https://search.proquest.com/openview/6f0b5190278f071b3ce9827bb6e95438/1?pq-origsite=gscholar&cbl=41804>.

Bartolome, M. T., & bin Mamat, N. (2020). Exploring Parental Involvement in Early Childhood Education in Philippines: A Case Study. *The Normal Lights, 14*(2).

### References

- ADMINISTRATIVE ORDER NO. 29, S2004. (2004). *STANDARDS FOR DAY CARE, OTHER ECCD CENTERS AND SERVICE PROVIDERS (FOR CHILDREN AGED 0-5.11 YEARS)*. DSWD issuances. Retrieved July 23, 2022, from <https://www.dswd.gov.ph/issuances/>
- Adams, L. B. (2018). *The Impact Of Structured Play On Early Literacy Skills In A Kindergarten Classroom*. [Doctoral dissertation, University of South Carolina]. Retrieved from <https://scholarcommons.sc.edu/etd/4739>
- Agostini, M. R., Vieira, L. M., Tondolo, R. da R. P., & Tondolo, V. A. G. (2017). An Overview On Social Innovation Research: Guiding Future Studies. *Brazilian Business Review*, 14(4), 385–402. <https://doi.org/10.15728/bbr.2017.14.4.2>
- Albert, J. R. G., Santos, A. G. F., & Vizmanos, J. F. V. (2018, December 18). *Defining and profiling the middle class*. [www.pids.gov.ph](http://www.pids.gov.ph). <https://pidswebs.pids.gov.ph/CDN/PUBLICATIONS/pidspn1818.pdf>.
- Allen, L. R., & Kelly, B. B., (Eds.) (2015, July 23). *4 child development and Early Learning - NCBI Bookshelf*. National Library of Medicine. Retrieved July 10, 2022, from <https://www.ncbi.nlm.nih.gov/books/NBK310550/>
- Allio, L. (2014). *Design Thinking for Public Service Excellence*. 4 UNDP Global Centre for Public Service Excellence. Retrieved from: [https://www.undp.org/content/dam/undp/library/capacity-development/English/Singapore%20Centre/GPCSE\\_Design%20Thinking.pdf](https://www.undp.org/content/dam/undp/library/capacity-development/English/Singapore%20Centre/GPCSE_Design%20Thinking.pdf)

WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
**GRADUATE SCHOOL**  
Iloilo City

170

American University. (2021, May 26). *What is brain-based learning?* American University.

Retrieved July 27, 2022, from <https://soeonline.american.edu/blog/brain-based-learning>

Amiel, T., & Reeves, T. C. (2008).

[https://www.researchgate.net/publication/220374789\\_Design-Based\\_Research\\_and\\_Educational\\_Technology\\_Rethinking\\_Technology\\_and\\_the\\_Research\\_Agenda](https://www.researchgate.net/publication/220374789_Design-Based_Research_and_Educational_Technology_Rethinking_Technology_and_the_Research_Agenda). *Educational Technology and Society*, 11(4), 29–40.

Amiel, T., & Reeves, T. C. (2008). Design-Based Research and Educational Technology: Rethinking Technology and the Research Agenda. *Educational Technology & Society*, 11 (4), 29–40

Amiel, T., & Reeves, T. C. (2008). Design-Based Research and Educational Technology: Rethinking Technology and the Research Agenda. *Educational Technology & Society*, 11 (4), 29–40

Anderson, R. (2010, January). Germany and the Humboldtian Model. Retrieved January 15, 2021, from <https://bit.ly/3bHUH4E>

Aquino, L. N., Mamat, N., & Mustafa, M. C. (2017). *COMPARING THE KINDERGARTEN CURRICULUM FRAMEWORK OF THE PHILIPPINES AND MALAYSIA*. *International Journal of Early Childhood Education Care*.

<https://files.eric.ed.gov/fulltext/EJ1207991.pdf>.

Atkins, S., & Murphy, K. (2008, June 28). *Reflection: A review of the literature*.

<https://onlinelibrary.wiley.com/doi/abs/10.1046/j.1365-2648.1993.18081188.x>.

WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
**GRADUATE SCHOOL**  
Iloilo City

171

- Austrew, A. (2021, January 19). 8 Pandemic Words & Phrases People Absolutely Never Want To Hear Again. Retrieved January 31, 2021, from <https://www.dictionary.com/e/pandemic-words-people-hate/>
- Aziz, S., Mahmood, M., & Rehman, Z. (2018). Implementation of CIPP Model for Quality Evaluation at School Level: A Case Study. *Journal of Education and Educational Development, Vol. 5* ( No. 1 ), 189–206.  
<https://doi.org/https://files.eric.ed.gov/fulltext/EJ1180614.pdf>
- Bakker, A. (2018). Design research in education. *Design research in education: A practical guide for early career researchers*, 3-22.
- Balachander, J. (1999). World Bank support for early childhood development: Case studies from Kenya, India, and the Philippines. *Food and Nutrition Bulletin, 20*(1), 136–145. <https://doi.org/10.1177/156482659902000112>
- Bamber, P. M. (2016). Transformative Education through International Service-Learning. Retrieved January 17, 2021, from <https://bit.ly/3nNu28Z>
- Barnett, E., & Casper, M. (2001, March). *Health Letters*. American Journal of Public Health.  
<https://search.proquest.com/openview/6f0b5190278f071b3ce9827bb6e95438/1?pq-origsite=gscholar&cbl=41804>.
- Bartolome, M. T., & bin Mamat, N. (2020). Exploring Parental Involvement in Early Childhood Education in Philippines: A Case Study. *The Normal Lights, 14*(2). Retrieved February 20, 2022, from

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Iloilo City

172

<https://po.pnuresearchportal.org/ejournal/index.php/normallights/article/view/1653>.

Bayaton-Obispo, E. V. (2014, July 25). *Gawad Kalinga Sibol Learning Center sponsored by Credit Suisse opens in GK Santa Ana Village, PATEROS; over 75 staff volunteers have taken part in GK builds*. MoneySense Philippines.

<https://www.moneysense.com.ph/gawad-kalinga-sibol-learning-center-sponsored-by-credit-suisse-opens-in-gk-santa-ana-village-pateros-over-75-staff-volunteers-have-taken-part-in-gk-builds/>.

Belvis, C. & Morauda-Gutierrez, M. R. | Tzu-Bin Lin (Reviewing editor) (2019). Amorphous language as alternative model for multilingual education in the Philippines, *Cogent Education*, 6:1, DOI: 10.1080/2331186X.2019.1695998

Bennett, N., & James Lemoine, G. (2014, August 1). *What VUCA Really Means for You*. Harvard Business Review. <https://hbr.org/2014/01/what-vuca-really-means-for-you>.

Bers, M. U., Strawhacker, A., & Vizner, M. (2018). The design of early childhood makerspaces to support positive technological development. *Library Hi Tech*, 36(1), 75–96. <https://doi.org/10.1108/lht-06-2017-0112>

Bilbao, P. P., Corpuz, B. B., Llagas, A. T., & Salandanan, G. G. (2006). *The Teaching Profession*. Lorimar Publishing Co., Inc.

Bilbao, P. P., Dayagbil, F. T., & Corpuz, B. B. (2015). *Curriculum Development for Teachers*. Lorimar Publishing Inc.

WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
**GRADUATE SCHOOL**  
Iloilo City

173

- Bilbao, P. P., Dequilla, M. A. C. V., Rosano, D. A., & Boholano, H. B. (2019). *Technology for Teaching and Learning*. LORIMAR Publishing Inc.
- Biesta, G. J. J., & Miedema, S. (2001, November 7). *Instruction or pedagogy? The need for a transformative conception of education*. *Teaching and Teacher Education*.  
<https://www.sciencedirect.com/science/article/abs/pii/S0742051X01000622>.
- Bitonon, J. (2020). Climate Risk Vulnerability Assessment: Basis for Decision Making Support for the Agriculture Sector in the Province of Iloilo. *International Journal of Innovation, Creativity and Change*, 13(3), 186–202.  
[https://www.ijicc.net/images/vol\\_13/Iss\\_3/13335\\_Onon\\_2020\\_E\\_R.pdf](https://www.ijicc.net/images/vol_13/Iss_3/13335_Onon_2020_E_R.pdf).
- Boyd, R. D., & Myers, J. G. (1988). Transformative education. *International Journal of Lifelong Education*, 7(4), 261–284. <https://doi.org/10.1080/0260137880070403>
- Bradley, B. A., & Reinking, D. (2011). Enhancing research and practice in early childhood through formative and design experiments. *Early Child Development and Care*, 181(3), 305–319. <https://doi.org/10.1080/03004430903357894>
- Center on the Developing Child at Harvard University. (2019, August 20). *Brain architecture*. Retrieved November 17, 2022, from  
<https://developingchild.harvard.edu/science/key-concepts/brain-architecture/>
- Bright Horizons Education. (2021, September 19). *Difference between preschool and pre-K*. Bright Horizons®. Retrieved July 18, 2022, from  
<https://www.brighthorizons.com/family-resources/articles/e-news/preschool-vs-pre-kindergarten-what-is-the-difference>



WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
**GRADUATE SCHOOL**  
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174

- Budig, K., Diez, J., Conde, P. *et al.* Photovoice and empowerment: evaluating the transformative potential of a participatory action research project. *BMC Public Health* **18**, 432 (2018). <https://doi.org/10.1186/s12889-018-5335-7>
- Butin, D. W. (2007, May 14). Justice-learning: Service-learning as justice-oriented education. Retrieved March 21, 2021, from <https://www.tandfonline.com/doi/abs/10.1080/10665680701246492>
- Cahill, G. (2010). primer on social innovation: a compendium of definitions developed by organizations around the world<sup>1</sup>. *The Philanthropist*, *23*(3), 259–271. <https://thephilanthropist.ca/original-pdfs/Philanthropist-23-3-441.pdf>.
- Camero, J. S. (2015, January 1). *House of Representatives Press releases*. House of Representatives. Retrieved December 4, 2022, from <https://www.congress.gov.ph/press/details.php?pressid=8420>
- Cancialosi, C. (2014, August 18). *Today's leaders must learn to thrive in disequilibrium*. Forbes. Retrieved August 1, 2022, from <https://www.forbes.com/sites/chriscancialosi/2014/07/28/todays-leaders-must-learn-to-thrive-in-disequilibrium/?sh=6e3b3cb73a3d>
- Giles, D. E., Jr., & Eyler, J. (1994). The Theoretical Roots of Service-Learning in John Dewey: Toward a Theory of Service-Learning. Retrieved February 03, 2021, from <https://digitalcommons.unomaha.edu/slceslgen/150>

WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
**GRADUATE SCHOOL**  
Iloilo City

175

Gilpin, L. S. and Liston, D. (2009) "Transformative Education in the Scholarship of Teaching and Learning: An Analysis of SoTL Literature," *International Journal for the Scholarship of Teaching and Learning*: Vol. 3: No. 2, Article 11.

Available at: <https://doi.org/10.20429/ijsotl.2009.030211>

Glanville, R. (1999). *Researching Design and Designing Research*. *Design Issues*, 15(2), 80-91. doi:10.2307/1511844

Gobble, M. A. M. (2015). Design Thinking. *Design Thinking: Research-Technology Management*, 5(3), 52-62. Retrieved January 4, 2022.

Goldstein, J., Hazy, J. K., & Silberstang, J. (2010, March 22). *A Complexity Science Model of Social Innovation in Social Enterprise*. Taylor & Francis.

<https://www.tandfonline.com/doi/abs/10.1080/19420671003629763>.

Gonzales, T. I. (2017, November 6). *The Social Laboratory*. Everyday Sociology Blog. <https://www.everydaysociologyblog.com/2017/11/the-social-laboratory.html>.

Gosselin, D. (2020, December 14). *Competencies vs learning outcomes*. InTeGrate.

Retrieved August 1, 2022, from

[https://serc.carleton.edu/integrate/programs/workforceprep/competencies\\_and\\_LO.html](https://serc.carleton.edu/integrate/programs/workforceprep/competencies_and_LO.html)

Gravemeijer, K., & van Eerde, D. (2009). Design research as a means for building a knowledge base for teachers and teaching in mathematics education. *The elementary school journal*, 109(5), 510-524.

WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
**GRADUATE SCHOOL**  
Iloilo City

176

Government of Ontario. (2021, March 23). *Ontario: How does learning happen?* Ontario's Pedagogy for the Early Years. Retrieved December 11, 2022, from <https://files.ontario.ca/edu-how-does-learning-happen-en-2021-03-23.pdf>

Assman, R. Kasif, S. Moore, R., Rocke & Ullman J. (1998, January 21). *Data Mining Research: Opportunities and Challenges A Report of three NSF Workshops on Mining Large, Massive, and Distributed Data\**. Sites.Bu.Edu.  
<https://bit.ly/2XpHEwy>

Guardian News and Media. (2020, October 30). *No, Covid-19 isn't a 'pandemic'*. The Guardian. <https://www.theguardian.com/books/2020/oct/30/no-covid-19-isnt-a-pandemic>.

Habaradas, R. & Aquino, M. L. (2010, January 1). *(PDF) Gawad Kalinga: Innovation in the city (and beyond)*. DLSU Angelo King Institute. <https://bit.ly/3ge72Qi>

Hackman, H. W. (2006, August 18). Five essential components for social Justice Education. Retrieved March 22, 2021, from <https://www.tandfonline.com/doi/abs/10.1080/10665680590935034>

Hassan, Z. (2014, May 14). *The Social Labs Revolution: A New Approach to Solving our Most Complex Challenges (SSIR)*. Stanford Social Innovation Review.  
[https://ssir.org/books/excerpts/entry/the\\_social\\_labs\\_revolution\\_a\\_new\\_approach\\_to\\_solving\\_our\\_most\\_complex\\_chall](https://ssir.org/books/excerpts/entry/the_social_labs_revolution_a_new_approach_to_solving_our_most_complex_chall).

Heaver, R. A., & Hunt, J. M. (1995). *Improving early childhood development: An integrated program for the Philippines*. World Bank.

WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
**GRADUATE SCHOOL**  
Iloilo City

177

- Henniger, M. L. (2013). *Teaching Young Children: An Introduction* (5th ed.). Pearson.
- Herrington, J., McKenney, S., Reeves, T. & Oliver, R. (2007). Design-based research and doctoral students: Guidelines for preparing a dissertation proposal. In C. Montgomerie & J. Seale (Eds.), *Proceedings of ED-MEDIA 2007--World Conference on Educational Multimedia, Hypermedia & Telecommunications* (pp. 4089-4097). Vancouver, Canada: Association for the Advancement of Computing in Education (AACE). Retrieved April 27, 2022 from <https://www.learntechlib.org/primary/p/25967/>.
- Hogue, R. (2013). *Epistemological Foundations of Educational Design Research*. Retrieved February 5, 2022, from [https://www.researchgate.net/publication/266852972\\_Epistemological\\_Foundations\\_of\\_Educational\\_Design\\_Research](https://www.researchgate.net/publication/266852972_Epistemological_Foundations_of_Educational_Design_Research)
- Hoffmann, V. (2009). *EXTENSION SCIENCE: WHAT WAS IT, WHAT IS IT AND WHAT MIGHT IT BE IN THE FUTURE?* In Paffarini, C. and Santucci, FM (Eds.). <https://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.473.3451&rep=rep1&type=pdf#page=30>. <https://core.ac.uk/download/pdf/12034920.pdf>.
- Holmes, G., & Abington-Cooper, M. (1970, January 1). *JOTS v26n2 - Pedagogy vs. Andragogy: A False Dichotomy?* Virginia Tech Scholarly Communication University Libraries. <https://scholar.lib.vt.edu/ejournals/JOTS/Summer-Fall-2000/holmes.html>.

WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
GRADUATE SCHOOL  
Iloilo City

178

Hope, A. (2021, February 23a). *Yes, pandemic paranoia is a thing right now*. CNN.  
<https://edition.cnn.com/2021/02/23/health/pandemic-stress-paranoia-wellness/index.html>.

Hope, A. (2021, February 24b). *Yes, pandemic paranoia is real, experts say*. cnn.  
<https://www.cnn.ph/lifestyle/2021/2/24/pandemic-paranoia.html>.

Howard, J. (2007). Curriculum Development.  
<https://www.uwindsor.ca/ctl/sites/uwindsor.ca.ctl/files/curriculum-development.pdf>.

Hu, E. (2021, August 4). Don't call people out--call them in| Loretta J. Ross [Audio podcast]. Ted Talks Daily. <https://podcasts.apple.com/au/podcast/dont-call-people-out-call-them-in-loretta-j-ross/id160904630?i=1000531006271>

Huitt, W. (2003). Classroom instruction. *Educational Psychology Interactive*. Valdosta, GA: Valdosta State University. Retrieved [date], from  
<http://chiron.valdosta.edu/whuitt/col/instruct/instruct.html>.

Humboldt-Universität zu Berlin, Temp\_adm (2016, May 18). Humboldt-Universität zu Berlin. Retrieved January 14, 2021, from <https://bit.ly/39zLYPy>.

Huntington, M. (2022). *Difference between a Day Care Center and a Kindergarten*. CHRON. Retrieved July 13, 2022, from <https://smallbusiness.chron.com/remove-registry-entries-msconfig-start-up-programs-44891.html>

Jackman, H. L. (2012). *Early Childhood Curriculum: A Child's Connection to the World* (5<sup>th</sup> Ed.). Wadsworth, Cengage Learning.

WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
GRADUATE SCHOOL  
Iloilo City

179

- Jonas, W. (2012, December 21). *Design research and its meaning to the Methodological development of the discipline*. De Gruyter. [http://dx.doi.org/10.1007/978-3-7643-8472-2\\_11](http://dx.doi.org/10.1007/978-3-7643-8472-2_11).
- Jones, G. E. & Garforth, C. (1997). Chapter 1 - the history, development, and future of agricultural extension. In B. E. Swanson, R. P. Bentz & A. J. Sofranko (Eds.), *Improving agricultural extension. A reference manual*.  
<http://www.fao.org/3/w5830e/w5830e03.htm>.
- Joseph Bienvenu , O. (2020). *About Johns Hopkins Psychiatry Guide: Johns Hopkins Psychiatry Guide*. About Johns Hopkins Psychiatry Guide | Johns Hopkins Psychiatry Guide.  
[https://www.hopkinsguides.com/hopkins/view/Johns\\_Hopkins\\_Psychiatry\\_Guide/787149/all/About\\_Johns\\_Hopkins\\_Psychiatry\\_Guide#0](https://www.hopkinsguides.com/hopkins/view/Johns_Hopkins_Psychiatry_Guide/787149/all/About_Johns_Hopkins_Psychiatry_Guide#0).
- Johnston, S., Ph.D. (2011). A Golden Age for Adult Education: The Collective Disorienting Dilemma. *College Quarterly*, 11(14). Retrieved February 6, 2021, from <https://files.eric.ed.gov/fulltext/EJ967639.pdf>.
- Kagan, S. L., Kristie Kauerz, K., EdD, & Junus, H., MA (2022). *Preschool programs: Effective curricula*. Encyclopedia on Early Childhood Development. Retrieved July 4, 2022, from <https://www.child-encyclopedia.com/preschool-programs/according-experts/preschool-programs-effective-curricula>

WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
GRADUATE SCHOOL  
Iloilo City

180

Kali, Y. (2016). Transformative learning in design research: The story behind the scenes.

Keynote presented at the International Conference of the Learning Sciences,  
Singapore

Kapranos, P. (2007). *21st Century Teaching & Learning kolb cycle & reflective thinking as ...* International Symposium for Engineering Education. Retrieved December 10, 2022, from [https://doras.dcu.ie/447/1/Kapranos\\_ISEE07.pdf](https://doras.dcu.ie/447/1/Kapranos_ISEE07.pdf)

Kapur, A. (2017, September 27). *5 areas of development*. 5 Areas of Development. Retrieved July 22, 2022, from <https://hundred.org/en/innovations/5-areas-of-development>

Kaushik , V., & Walsh, C. A. (2019, September 3). *Pragmatism as a Research Paradigm and Its Implication to Social Work*. Social Sciences. <https://www.mdpi.com/journal/socsci>.

Katz, L.G., (1987). Current Issues in Early Childhood Education. Champaign II: ERIC Clearinghouse on Early Childhood Education.

Keengwe, J. (2015). *What is Professional Education*. IGI Global. <https://www.igi-global.com/dictionary/active-learning-deliberate-practice-and-educational-technology-in-professional-education/47313>.

Kelly, L. M., & Cordeiro, M. (2020). *Three Principles of Pragmatism for Research on Organizational Processes*. <https://doi.org/https://doi.org/10.1177%2F2059799120937242>

WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
**GRADUATE SCHOOL**  
Iloilo City

181

Kennedy-Clark, S. (2013). Research by design: Design-based research and the Higher Degree Research Student. *Journal of Learning Design, 6*(2).

<https://doi.org/10.5204/jld.v6i2.128>

Kentuckiana. (2011, March 7). *Montessori triad of learning (short version)*. Montessori in Kentuckiana Blog. Retrieved July 30, 2022, from

<https://montessoriguide.wordpress.com/2011/03/07/montessori-triad-of-learning-short-version/>

Kolb, A. Y. & Kolb, D. A. (2009). Experiential Learning Theory: A Dynamic Holistic Approach to Management Learning, Education and Development. In Armstrong, S. J. & Fukami, C. V. (Eds.), *The Sage Handbook Management Learning, Education and Development* (pp. 42-67). SAGE Publication, Ltd.

Kolb, D. A. (2015). *Experiential Learning: Experience as Source of Learning and Development* (2nd ed.). Pearson Education Inc. Retrieved from <https://bit.ly/3e5h1oF>

Lagemann, E. C. (1999, November 30). *An elusive science: The troubling history of Education Research*. ERIC. Retrieved November 14, 2022, from <https://eric.ed.gov/?id=ED457075>

Lagemann, E. C. (2002). *An elusive science: The troubling history of education research*. Chicago, IL: University of Chicago Press.



WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
GRADUATE SCHOOL  
Iloilo City

182

Lee-Brago, P. (2012, May 27). *DepEd issues Implementing Rules of Kindergarten Act.*

Philstar.com. Retrieved July 10, 2022, from

<https://www.philstar.com/headlines/2012/05/27/810874/deped-issues-implementing-rules-kindergarten-act>

Lee, S. J., & Reeves, T. C. (2017, January 1). *Edgar Dale and the Cone of Experience.*

Foundations of Learning and Instructional Design Technology.

<https://lidtfoundations.pressbooks.com/chapter/edgar-dale-and-the-cone-of-experience/>.

Legislature, Republic Acts. (2012, January 20). *Republic Act No. 10157: Kindergarten*

*Education Act.* Official Gazette of the Republic of the Philippines.

<https://www.officialgazette.gov.ph/2012/01/20/republic-act-no-10157/>.

Lawrence Berkeley National Laboratory. (n.d.). Basic vs. Applied Research (from

Lawrence Berkeley National Laboratory). Retrieved January 20, 2021, from

<https://www.sjsu.edu/people/fred.prochaska/courses/ScWk170/s0/Basic-vs.-Applied-Research.pdf>.

Lena, P. (2020, December 31). *Iloilo City soars in 2020 amid global health pandemic.*

Philippine News Agency RSS. <https://www.pna.gov.ph/articles/1126042>.

Lena, P. (2021, August 20). *DepEd adopts Capiz' safe home learning spaces initiative.*

Philippine News Agency. <https://www.pna.gov.ph/articles/1151104>.

WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
**GRADUATE SCHOOL**  
Iloilo City

183

- Levine, D. T., Morton, J., & O'Reilly, M. (2020, December). *Child safety, protection, and safeguarding in the time of COVID-19 in Great Britain: Proposing a conceptual framework*. ScienceDirect. Retrieved September 24, 2021, from <https://doi.org/10.1016/j.chiabu.2020.104668>.
- Llenares, I. I., & Deocarís, C. C. (2018). Measuring The Impact of an Academe Community Extension Program In The Philippines. *Malaysian Journal of Learning and Instruction, 15*(01), 35–55. <https://doi.org/10.31838/jcr.07.01.38>
- Lowry, L. (2016). *"Tuning in" To others: How young children develop theory of mind*. Tuning In to Others: How Young Children Develop Theory of Mind. Retrieved July 27, 2022, from <https://www.hanen.org/Helpful-Info/Articles/Tuning-In-to-Others-How-Young-Children-Develop.aspx>
- Lu, S. (2015, March). *An epidemic of fear*. Monitor on Psychology. <https://www.apa.org/monitor/2015/03/fear>.
- Luitel, B. C., & Wagley, S. K. (2018). Transformative Educational Research: Fleshing Out the Concepts. *Journal of Education and Research, 1*(1), 1-10. doi:10.3126/jer.v7i1.21236
- Luckett, K. S. & Shay, S. (2019, November 30). Reframing the Curriculum: A Transformative Approach. Retrieved January 17, 2021, from <https://eric.ed.gov/?q=what%2Bis%2Btransformative%2Beducation&id=EJ1243>

WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
**GRADUATE SCHOOL**  
Iloilo City

184

Mack, L. (2010). *The Philosophical Underpinnings of Educational Research*. Retrieved January 25, 2021, from <https://bit.ly/3qLp3aQ>

Mcleod, S. (2020, December 7). *Jean Piaget's theory and stages of cognitive development*. Jean Piaget's Theory and Stages of Cognitive Development | Simply Psychology. Retrieved August 1, 2022, from <https://www.simplypsychology.org/piaget.html>

Mackrell, K., & Pratt, D. (2017, February 18). *Constructionism and the space of reasons*. Mathematics Education Research Journal. <https://link.springer.com/article/10.1007/s13394-017-0194-6#citeas>.

Madani, D. (2021, April 8). *Save the children*. Retrieved December 14, 2022, from <https://daleel-madani.org/civil-society-directory/save-children>

Manuel, M. F., & Gregorio, E. B. (2011). Legal frameworks for early childhood governance in the Philippines. *International Journal of Child Care and Education Policy*, 5(1), 65–76. <https://doi.org/10.1007/2288-6729-5-1-65>

Markova, D., & Powell, A. (1992). *How Your Child Is Smart*. Conari Press.

McKay, D., Heisler,, M., Mishori,, R., Catton, H., & Kloiber, O. (2020). THELANCET. *The Lancet*, 137(3529), 890-893. doi:10.1016/s0140-6736(02)18394-2

McKenney , S. (2013). Chapter 9: Educational Design Research. In T. C. Reeves (Ed.), *Educational Design Research* (pp. 131–140). essay, Springer.

WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
GRADUATE SCHOOL  
Iloilo City

185

McKenney, S., & Reeves, T. C. (2020). Educational Design Research: Portraying, conducting, and enhancing productive scholarship. *Medical Education, 55*(1), 82-92. <https://doi.org/10.1111/medu.14280>

McKenney, S., & Reeves, T. C. (2021). Educational design research: Portraying, conducting, and enhancing productive scholarship. *Medical Education, 55*(1), 82-92.

McLaughlin, A. (2020, June 23). *Investigating the most convincing COVID-19 conspiracy theories*. Feature from King's College London.  
<https://www.kcl.ac.uk/investigating-the-most-convincing-covid-19-conspiracy-theories>.

Meador, D. (2019, March 4). *Building a portfolio assessment can be a powerful tool for students*. ThoughtCo. Retrieved December 14, 2022, from <https://www.thoughtco.com/the-purpose-of-building-a-portfolio-assessment-3194653>

Medina, B. O. (2019, April). *Community Engagement Of State Universities And Colleges In The Philippines: Towards Socially And Culturally Responsible Research And Extension Initiatives*. *ijarp.org*. <http://www.ijarp.org>.

Melrose, S., Park, C., & Perry, B. (2015, August 21). *CHAPTER TWO – WHERE DO I FIT IN? ARTICULATING A PERSONAL PHILOSOPHY*. Go to the cover page of Creative Clinical Teaching in the Health Professions. <https://clinicalteaching.pressbooks.com/chapter/chapter-two-where-do-i-fit-in-articulating-a-personal-philosophy/>.

WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
**GRADUATE SCHOOL**  
Iloilo City

186

Mezirow, J. (1978). *Perspective Transformation*. *Sage Journal*.

doi:<https://doi.org/10.1177%2F074171367802800202>

Mezirow, J. (1990). *A Transformative Theory of Adult Learning*. Retrieved February 06, 2021, from <https://files.eric.ed.gov/fulltext/ED357160.pdf#page=153>

Mezirow, J., & Taylor, E. W. (2010). *Transformative learning in practice: Insights from community, workplace, and higher education*. San Francisco: Jossey-Bass.

Meyer, N. J., Boyce, S. P., & Meyer, R. L. (2015). A call to embrace program innovation. *Journal of Extension*, *53*(3).

Millan, S. B. (2019). *Design Thinking and Collaborative Governance for Public Service Innovation: an Application in Civic Technology*. Unpublished Doctoral Dissertation, National College of Public Administration and Governance, University of the Philippines, Diliman, Quezon City. Retrieved from <https://bit.ly/3yK2qaB>

Miller, A. E. (2019). *College Student Thriving: A Comparison of Innovative Extension Sites to the Traditional College Campus* (dissertation). Proquest LLC, Ann Arbor, MI. Retrieved from <https://www.proquest.com/docview/2197567762/FEA44D08F8F497CPQ/8>

Mind Tools Content Team. (2018, September 17). *How to Manage in a VUCA World Video*. From MindTools.com. <https://www.mindtools.com/pages/videos/VUCA-transcript.htm>.

WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
**GRADUATE SCHOOL**  
Iloilo City

187

Morrison, G. R., Ross, S. M., Kalman, H. K., & Kemp, J. E. (2011). *Designing Effective Instruction* (6th ed.). John Wiley & Sons, Inc. .

Missouri's Early Care and Connections. (2022). *Early childhood brain development*. Early Childhood Brain Development | Early Connections. Retrieved July 27, 2022, from <https://earlyconnections.mo.gov/early-childhood-brain-development>

Montsecrets. (2009). *Three Period Lesson*. YouTube. Retrieved December 12, 2022, from <https://youtu.be/EH2nZmX0ntc>.

Mulgan, G. (2010). *MEASURING SOCIAL VALUE*. Eurodiaconia.org.  
[https://eurodiaconia.org/wordpress/wp-content/uploads/2015/09/Briefing\\_-\\_Measuring\\_Social\\_Value.pdf](https://eurodiaconia.org/wordpress/wp-content/uploads/2015/09/Briefing_-_Measuring_Social_Value.pdf).

Mulgan, G., Tucker, S., Ali, R., & Sanders, B. (2012). *Social innovation: what is it, why it matters and how it can be accelerated*. Skoll Centre for Social Entrepreneurship.  
<https://youngfoundation.org/wp-content/uploads/2012/10/Social-Innovation-what-it-is-why-it-matters-how-it-can-be-accelerated-March-2007.pdf>.

Mund, H. (2017, June 22). Knowledge is power: Humboldt's educational vision resonates on 250th birthday: DW: 22.06.2017. Retrieved January 14, 2021, from <https://bit.ly/3ssnbWg>

MyMemory, Trans., (2013, October 14). Results for universitas litterarum translation from Latin to English Retrieved January 15, 2021, from <https://bit.ly/3iipXZu>

WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
**GRADUATE SCHOOL**  
Iloilo City

188

NAEYC. (n.d.). *DAP: Planning and implementing an engaging curriculum to achieve meaningful goals*. NAEYC. Retrieved July 4, 2022, from <https://www.naeyc.org/resources/position-statements/dap/planning-curriculum>

Nassaji, H. (2015). Qualitative and descriptive research: Data type versus data analysis. *Language Teaching Research, 19*(2), 129–132. <https://doi.org/10.1177/1362168815572747>

National Economic and Development Agency. (2017, January 20). Philippine Development Plan 2017-2022. Retrieved January 20, 2021, from <http://nro12.neda.gov.ph/wp-content/uploads/2018/08/RDP-Chapter-11.pdf>

Navarro, R. L., & Santos, R. G. (2011). *Research-based Teaching and Learning*. Lorimar Publishing.

NEDA. (2016). *Updated Philippine Development Plan 2017-2022*. Pdp.neda.gov.ph. Retrieved September 30, 2021, from <https://pdp.neda.gov.ph/wp-content/uploads/2021/02/20210218-Pre-publication-copy-Updated-Philippine-Development-Plan-2017-2022.pdf>. <https://bit.ly/3kRKC9t>

*NELF – ECCDC – website*. ECCDC. (2022). Retrieved December 1, 2022, from <https://eccdcouncil.gov.ph/nelf/>

Neuman, S. B., Copple, C., & Bredekamp, S. (1999). *Learning to Read and Write*. National Association for the Education of Young Children.

WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
GRADUATE SCHOOL  
Iloilo City

189

Newton, C. (2020, May 12). *How the 'Plandemic' video hoax went viral*. The Verge.

<https://www.theverge.com/2020/5/12/21254184/how-plandemic-went-viral-facebook-youtube>.

Nipissing -Parry Sound Catholic School Board. (2001). *Assessment, evaluation and reporting in kindergarten A guide to the ...* Nipissing-Parry Sound Catholic School Board. Retrieved August 19, 2022, from

<https://oafccd.com/documents/timiskaming/npscdsbKindergartenAssessment.pdf>

Nores, M., & Barnett, W. S. (2010). Benefits of early childhood interventions across the world: (under) investing in the very young. *Economics of Education Review*,

*29*(2), 271–282. <https://doi.org/10.1016/j.econedurev.2009.09.001>

North Dakota State University. (2021, January 17). *Social Science Education*. NDSU.

<https://www.ndsu.edu/majors/sossci/>.

Novak, M. (2000, December). Defining Social Justice. Retrieved March 14, 2021, from

<https://www.calculemus.org/lect/FilozGosp04-05/novak.html>

Ntumi, S. (2015, November 30). *Challenges pre-school teachers face in the implementation of the early childhood curriculum in the Cape Coast*

*Metropolis*. Journal of Education and Practice. Retrieved February 16, 2022, from

<https://eric.ed.gov/?id=EJ1089727>

Null, W. (2011). *Curriculum from Theory to Practice*. Rowman & Littlefield Publishers.

Oakley, P., & Garforth, C. (1997). *Understanding Extension*. fao.org.

<http://www.fao.org/3/t0060e/T0060E03.htm>.



WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
**GRADUATE SCHOOL**  
Iloilo City

190

OCHA. (2020, March 31). Attacks on health care monthly news brief - march 2020 - world. Retrieved February 23, 2021, from <https://reliefweb.int/report/world/attacks-health-care-monthly-news-brief-march-2020>

Organization of American States. (2022). *Knowledge-based Society*. OAS: More rights for more people. Retrieved July 27, 2022, from [https://www.oas.org/en/topics/knowledge\\_society.asp](https://www.oas.org/en/topics/knowledge_society.asp)

Ortega, S. (2019, April 1). *Early childhood care and development (ECCD) program in the National Child Development Center (NCDC) - magayagayang magallanes*. Magayagayang Magallanes - Official Website of the Municipality of Magallanes, Sorsogon. Retrieved July 13, 2022, from <https://www.magallanessorsogon.gov.ph/early-childhood-care-and-development-eccd-program-in-the-national-child-development-center-ncdc/>

OSHA-Europa. (2020, April 28). Covid-19: Back to the workplace in safe and healthy conditions. Retrieved February 23, 2021, from <https://osha.europa.eu/en/highlights/covid-19-back-workplace-safe-and-healthy-conditions>

Ouano, J., & Mazzarella, F. (2021). Design-Driven approaches to enable SUSTAINABLE Entrepreneurship – two case studies of Regional textile communities from the Philippines and the UK. *The Design Journal*, 24(5), 1–21. <https://doi.org/10.1080/17513758.2021.1911111>

Pathway Montessori. (2019, January 1). *Five areas of the Montessori Classroom*.

WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
**GRADUATE SCHOOL**  
Iloilo City

191

Pathway Montessori Preschool. Retrieved July 28, 2022, from  
<https://pathwaymontessori.com/5-areas-montessori-classroom/080/14606925.2021.1958527>

Oxford University Press. (2022). *Acceptability*. acceptability noun - Definition, pictures, pronunciation and usage notes | Oxford Advanced Learner's Dictionary at OxfordLearnersDictionaries.com. Retrieved December 1, 2022, from  
<https://www.oxfordlearnersdictionaries.com/us/definition/english/acceptability>

Pathway Montessori. (2019, January 1). *Five areas of the Montessori Classroom*.

Pathway Montessori Preschool. Retrieved July 28, 2022, from  
<https://pathwaymontessori.com/5-areas-montessori-classroom/>

Pecorino, P. A. (2003). Pragmatism.

[https://www.qcc.cuny.edu/socialsciences/ppecorino/intro\\_text/chapter%204%20metaphysics/Pragmatism.htm](https://www.qcc.cuny.edu/socialsciences/ppecorino/intro_text/chapter%204%20metaphysics/Pragmatism.htm).

Peet, E. D., McCoy, D. C., Danaei, G., Ezzati, M., Fawzi, W., Jarvelin, M.-R., Pillas, D., & Fink, G. (2015). Early childhood development and schooling attainment: Longitudinal evidence from British, Finnish and Philippine Birth cohorts. *PLOS ONE*, *10*(9). <https://doi.org/10.1371/journal.pone.0137219>

Perera, A. (2020, August 7). *Theory of mind*. Theory of Mind | Simply Psychology. Retrieved July 27, 2022, from <https://www.simplypsychology.org/theory-of-mind.html>

WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
**GRADUATE SCHOOL**  
Iloilo City

192

- Perez, R. (2019, July 30). *Confused about the new age requirement for kinder and grade 1? here's an explainer*. SmartParenting.com.ph. Retrieved July 13, 2022, from <https://www.smartparenting.com.ph/parenting/preschooler/a-guide-to-understanding-the-deped-policy-on-kinder-and-grade-1-age-requirement-a00041-20180426>
- Peshkin, A. (1988, October 1). *In Search of Subjectivity-One's Own - Alan Peshkin, 1988*. SAGE Journals.  
<https://journals.sagepub.com/doi/abs/10.3102/0013189x017007017>.
- Philippis, D.C., & Dolle, J.R. (2006). From Plato to brown and beyond: Theory, practice, and the promise of design experiments. In L. Verschaffel, F. Dochy, M. Boekaerts, & S. Vosniadou (Eds.), *Instructional psychology: Past, present and future trends* (pp. 277-292). Oxford / Amsterdam: Elsevier.
- Pizaña, A. D., Pizaña, R. E. C., Pogoy, A. M., & Pentang, J. T. (2021, April 30). European Scholar Journal.
- Plomp, T. (2013). *Educational Design Research: An Introduction*. <https://bit.ly/3weroi0>
- Prediger, S., Gravemeijer, K., & Confrey, J. (2015). Design research with a focus on learning processes: An overview on achievements and challenges. *ZDM, 47*(6), 877–891. <https://doi.org/10.1007/s11858-015-0722-3>

WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
**GRADUATE SCHOOL**  
Iloilo City

193

Public Information and Community Affairs Office. (2010, November 11). *GK villages in Iloilo gird for Xmas tree contest*. BALITA HALIN SA KAPITOLYO.

<https://bit.ly/3giYuYA>

Ministry of Social Affairs and Health. (2004, August 26). *National curriculum guidelines on early childhood education and care in Finland*. Retrieved July 22, 2022, from

<https://www.julkari.fi/bitstream/handle/10024/75535/267671cb-0ec0-4039-b97b-7ac6ce6b9c10.pdf?sequence=1>

Pulido-Mantas, L., & Ruiz-Seisdedos, S. (2018). Inclusive education through children's literatura: Reading to interiorize difference. *MLS-Educational Research*, 2(1), 27-46. doi:10.29314/mlser.v2i1.48

radiology info.org. (2019, February 15). *Magnetic Resonance, Functional (fMRI) - Brain*.

Radiologyinfo.org. <https://www.radiologyinfo.org/en/info/fmribrain>.

Random House House, Inc. (2021). *New normal*. Dictionary.com.

<https://www.dictionary.com/browse/new-normal>.

Republic of the Philippines. (2013, February 20). *3 government agencies join forces to help children get ready for school: GOVPH*. Official Gazette of the Republic of the

Philippines. Retrieved July 13, 2022, from

<https://www.officialgazette.gov.ph/2013/02/20/3-government-agencies-join-forces-to-help-children-get-ready-for-school/>

WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
**GRADUATE SCHOOL**  
Iloilo City

194

Reeves, T. C., McKenney, S., & Herrington, J. (2011). Publishing and perishing: The critical importance of educational design research. *Australasian Journal of Educational Technology*, 27(1). <https://doi.org/10.14742/ajet.982>

Republic Act 8980. (2002, December 5). *Republic of the Philippine Commission on women*. Philippine Commission on Women. Retrieved July 8, 2022, from <https://pcw.gov.ph/republic-act-8980-early-childhood-care-and-development-act/>

Republic of the Philippines. (n.d.). *The K to 12 basic education program: GOVPH*. Official Gazette of the Republic of the Philippines. Retrieved June 17, 2022, from <https://www.officialgazette.gov.ph/k-12/>

Republic of the Philippines. (2021, February 01). PUBLIC AND TRAVEL ADVISORIES ON COVID-19. Retrieved February 23, 2021, from <https://dfa.gov.ph/covid-19-advisories/26376-travel-restrictions-by-philippine-government-on-foreign-travelers>

reverse dictionary.org. (2020, June 22). Reverse Dictionary.

<https://reversedictionary.org/wordsfor/the%20new%20normal>.

Ritchie, H., Ortiz-Ospina, E., Beltekian, D., Matthieu, E., Hasell, J., Macdonald, B., ...

Rosel, M. (2020, January 22). *Coronavirus (COVID-19) Deaths - Statistics and Research*. Our World in Data. <https://ourworldindata.org/covid-deaths?country=IND~USA~GBR~CAN~DEU~FRA>.

WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
**GRADUATE SCHOOL**  
Iloilo City

195

- Richey, R. C. (1993, November 30). *Developmental research: The definition and scope*. ERIC. Retrieved December 1, 2022, from <https://eric.ed.gov/?id=ED373753>
- Rivera, W. (2008) The 'Business' of the Public Sector: Extension in Transition and the Balance of Powers. Retrieved from <https://bit.ly/3unzVy6> on February 22, 2021.
- Rivera, W. M., M. Kalim Qamar and L. Van Crowder (2001). Agricultural and Rural Extension Worldwide: Options for Institutional Reform in the Developing Countries. *Agricultural and rural extension*. Retrieved on February 2, 2021 from <http://www.fao.org/3/y2709e/y2709e05.htm>
- Rosenberg, M. (1965). *Self Report Measures for Love and Compassion Research: Self-esteem*. Fetzer Institute. <https://bit.ly/3tvZGeV>
- Rosenberg, M. (1965) Rosenberg self-esteem scale. Princeton University Press, Maryland University, Princeton, NJ. - references - scientific research publishing. (n.d.). Retrieved February 5, 2022, from [https://www.scirp.org/\(S\(lz5mq453edsnp55rrgjct55\)\)/reference/referencespapers.aspx?referenceid=2379468](https://www.scirp.org/(S(lz5mq453edsnp55rrgjct55))/reference/referencespapers.aspx?referenceid=2379468)
- Ruhl, C. (2020, Aug 07). *Theory of mind*. Simply Psychology. [www.simplypsychology.org/theory-of-mind.html](http://www.simplypsychology.org/theory-of-mind.html)
- Sabar, N., & Shafriri, N. (2006, September 12). *The Need for Teacher Training in Curriculum Development*. <https://www.tandfonline.com/doi/pdf/10.1080/0305763810080105>.  
<https://doi.org/10.1080/0305763810080105>.

WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
GRADUATE SCHOOL  
Iloilo City

196

- Sangalang, R. (2014). *Outcomes-Based Research and Extension Paradigms* [PowerPoint slides]. Commission on Higher Education
- Satterthwait, D. (2010). Why are “hands-on” science activities so effective for student learning? *Teaching Science*, 56(2), 7–10.  
<https://search.informit.org/doi/10.3316/aeipt.182048>
- Schachter, R. E., Matthews, A., & Piasta, S. B. (2021). *Research highlight: Perceptions of early childhood teachers' literacy instruction – differences between observers and the teachers themselves*. Crane Center. <https://crane.osu.edu/our-work/research-highlight-perceptions-of-early-childhood-teachers-literacy/>.
- Schweinhart, L. J., & Weikart, D. P. (2008). *Why curriculum matters in early childhood education - researchgate*. ResearchGate. Retrieved December 7, 2022, from [https://www.researchgate.net/publication/234577267\\_Why\\_Curriculum\\_Matters\\_in\\_Early\\_Childhood\\_Education](https://www.researchgate.net/publication/234577267_Why_Curriculum_Matters_in_Early_Childhood_Education)
- Serrat O. (2017a) The SCAMPER Technique. In: Knowledge Solutions. Springer, Singapore. [https://doi.org/10.1007/978-981-10-0983-9\\_33](https://doi.org/10.1007/978-981-10-0983-9_33)
- Serrat O. (2017b) Sparking Social Innovations. In: Knowledge Solutions. Springer, Singapore. [https://doi.org/10.1007/978-981-10-0983-9\\_75](https://doi.org/10.1007/978-981-10-0983-9_75)
- Shiksha, K. (2012, January 13). *Fundamentals of Extension Education (1+1)*. (AEX 201): Importance of Extension Evaluation.  
<http://ecoursesonline.iasri.res.in/mod/page/view.php?id=15466>.

WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
**GRADUATE SCHOOL**  
Iloilo City

197

- Shipstead, Z., & Yonehiro, J. (2016). The domain-specific and domain-general relationships of visuospatial working memory to reasoning ability. *Psychonomic Bulletin & Review*, 23(5), 1504–1512. <https://doi.org/10.3758/s13423-016-1021-x>
- Shonkoff, J. P. (2017, December 1). *Rethinking the Definition of Evidence-Based Interventions to Promote Early Childhood Development*. American Academy of Pediatrics. <https://pediatrics.aappublications.org/content/140/6/e20173136>.
- Smith, B. D. (2005, December 22). *John Dewey's Theory of Consciousness*. Wiley Online Library. <https://onlinelibrary.wiley.com/doi/abs/10.1111/j.1741-5446.1985.00267.x>.
- Spodek, B. E., & Ed, S. O. N. (1991). *Issues in early childhood curriculum. yearbook in early childhood education, volume 2*. Teachers College Press.
- Stanford Graduate School of Business (n.d.) Center for Social Innovation. Retrieved from <https://stanford.io/2KdRgri>
- Stoecker, R. (2014). Extension and Higher Education Service- Learning: Toward a Community Development Service-Learning Model. *Journal of Higher Education Outreach and Engagement*, 18(1), issn 1534-6104, 15-32. doi:10.15417/1881
- Stutt, A. (2022, May 10). *Curriculum development and the 3 models - updated 2022 [+ free course plan template] [updated 2022]*. Top Hat. Retrieved July 4, 2022, from <https://tophat.com/blog/curriculum-development-models-design/>



WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
GRADUATE SCHOOL  
Iloilo City

198

Sylva, K., Melhuish, E., Sammons, P., Siraj-Blatchford, I., & Taggart, B. (2010). *Early Childhood Matters*. Google Books. <https://bit.ly/3myBwxP>

Tanhueco-Tumapon, T. (2016, March 10). *Service-learning in higher education*. The Manila Times. <https://www.manilatimes.net/2016/03/10/opinion/columnists/service-learning-in-higher-education/249721/>.

TED. (2016, August 9) Why you think you're right -- even if you're wrong | Julia Galef [Video]. YouTube. <https://www.youtube.com/watch?v=w4RLfVxTGH4>

thebridgeye. (2012, May 29). *Volunteering & Internships in Philippines: Gawad Kalinga*. The Bridge. <https://ybridgedotcom.wordpress.com/2012/05/29/volunteering-internships-in-philippines-gawad-kalinga/>.

The Editors of Encyclopaedia Britannica (April 24, 2020). Humboldt University of Berlin. Encyclopædia Britannica. Retrieved on January 14, 2021 from <https://www.britannica.com/topic/Humboldt-University-of-Berlin>

The President and Fellows of Harvard. (2022). *Serve and return guide: How interaction with children can build brains*. Center on the Developing Child at Harvard University. Retrieved December 1, 2022, from <https://developingchild.harvard.edu/guide/a-guide-to-serve-and-return-how-your-interaction-with-children-can-build-brains/>

WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
**GRADUATE SCHOOL**  
Iloilo City

199

Theodore, P. A. (n.d.). Progressivism.

<https://www.siue.edu/~ptheodo/foundations/progressivism.html>.

Timmermans, J., Blok, V., Braun, R., Wesselink, R., & Nielsen, R. Ø. (2020, July 3). *Social labs as an inclusive methodology to implement and study social change: the case of responsible research and innovation*. Taylor & Francis Online. <https://www.tandfonline.com/doi/full/10.1080/23299460.2020.1787751>.

Tschimmel, K. (2012). Design Thinking as an effective Toolkit for Innovation. In: *Proceedings of the XXIII ISPIM Conference: Action for Innovation: Innovating from Experience*. Barcelona. ISBN 978-952-265-243-0. Retrieved from <https://bit.ly/3kQ8skH>

Turesky, E. & Wood, D. (2010) "Kolb's experiential learning as a critical frame for reflective practice," *Academic Leadership: The Online Journal*. Vol. 8 : Iss. 3 , Article 25. <https://scholars.fhsu.edu/alj/vol8/iss3/25>

Unceta, A., Guerra, I., & Barandiaran, X. (2021). Integrating social innovation into the curriculum of higher education institutions in Latin America: Insights from the students4change project. *Sustainability*, 13(10), 5378. <https://doi.org/10.3390/su13105378>

Urama , K. C., & Acheampong, E. N. (2013). *Social Innovation Creates Prosperous Societies (SSIR)*. Stanford Social Innovation Review: Informing and Inspiring Leaders of Social Change. [https://ssir.org/articles/entry/social\\_innovation\\_creates\\_prosperous\\_societies](https://ssir.org/articles/entry/social_innovation_creates_prosperous_societies).

WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
**GRADUATE SCHOOL**  
Iloilo City

200

UNICEF. (2018). *Early childhood development - UNICEF*. unicef.org. Retrieved July 10, 2022, from <https://www.unicef.org/sites/default/files/2019-05/Early%20Childhood%20Development%20in%20the%20UNICEF%20Strategic%20Plan%202018-2021.pdf>

UNICEF Philippines. (2018, June 27). *The benefits of preschool for young children*. UNICEF Philippines. <https://medium.com/@unicefphils/the-benefits-of-preschool-for-young-children-f666041bfd9d>.

University of Florida. (2022). *Kolb's four stages of learning*. Kolb's Four Stages of Learning - Center for Instructional Technology and Training - University of Florida. Retrieved December 11, 2022, from <https://citt.ufl.edu/resources/the-learning-process/types-of-learners/kolbs-four-stages-of-learning/>

University of Pennsylvania. (2020, August 10). *What is early childhood? - center for high impact philanthropy*. Center for High Impact Philanthropy - University of Pennsylvania. Retrieved July 10, 2022, from <https://www.impact.upenn.edu/early-childhood-toolkit/what-is-early-childhood/>

Valamis.com. (n.d.). *Transformative Learning Theory by Jack Mezirow with Examples [2020]*. Retrieved January 17, 2021, from <https://www.valamis.com/hub/transformative-learning>

Van Reusel, H., Michels, C. and Schoonjans, Y., 2021. *Dissecting the Archipelago: PhD by Design Concepts in the Fields of Architecture and Urban Design*. *ARENA Journal of Architectural Research*, 6(1), p.4. DOI: <http://doi.org/10.5334/ajar.255>

WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
GRADUATE SCHOOL  
Iloilo City

20

Victoria State Government. (2020, August 25). *Assessment*. Department of Education and Training Victoria.

<https://www.education.vic.gov.au/school/teachers/teachingresources/practice/Pages/assessment.aspx>.

Villanueva, R. H. (2010). *The Human Endeavor of Intentional Communities: The Gawad Kalinga Movement*. Retrieved January 15, 2021, from <https://bit.ly/2XGgd1N>

Wakkary, R. (2021). *Pragmatism, interaction design and a theoretical framework*.

[http://www.sfu.ca/~rwakkary/thesis/Wakkary\\_Chapter\\_3.pdf](http://www.sfu.ca/~rwakkary/thesis/Wakkary_Chapter_3.pdf)

Wargo, W. G. (2015, August 14). *Identifying Assumptions and Limitations For Your Dissertation*. AcademicInfoCenter.com | Expert Dissertation Coaching, Editing & Consulting. <https://www.academicinfocenter.com/identifying-assumptions-and-limitations-for-your-dissertation.html>.

White, E. J., Hutka, S. A., Williams, L. J., & Moreno, S. (2013). Learning, neural plasticity and sensitive periods: Implications for language acquisition, music training and transfer across the lifespan. *Frontiers in Systems Neuroscience*, *7*, 1–13.

<https://doi.org/10.3389/fnsys.2013.00090>

WHO. (2020, February 21a). *Infection prevention and control*. Retrieved February 23, 2021, from <https://www.who.int/westernpacific/emergencies/covid-19/technical-guidance/infection-prevention-control>

WEST VISAYAS STATE UNIVERSITY  
COLLEGE OF EDUCATION  
GRADUATE SCHOOL  
Iloilo City

202

WHO. (2020, March 11b). *WHO Director-General's opening remarks at the media briefing on COVID-19 - 11 March 2020*. World Health Organization.

<https://www.who.int/director-general/speeches/detail/who-director-general-s-opening-remarks-at-the-media-briefing-on-covid-19---11-march-2020>.

WHO. (2021c). Naming the coronavirus disease (COVID-19) and the virus that causes it.

Retrieved February 03, 2021, from

[https://www.who.int/emergencies/diseases/novel-coronavirus-2019/technical-guidance/naming-the-coronavirus-disease-\(covid-2019\)-and-the-virus-that-causes-it](https://www.who.int/emergencies/diseases/novel-coronavirus-2019/technical-guidance/naming-the-coronavirus-disease-(covid-2019)-and-the-virus-that-causes-it)

Workman, J. D. (2010). *Exploring The Level of Evidence of Impact Collected Through Program Evaluation By Cooperative Extension as Published in The Journal of Extension* (Doctoral dissertation). Available from <https://bit.ly/3sgPcPz>. (osu1291120544.pdf)

Wyse, D., Brown, C., Oliver, S., & Poblete, X. (2020). Education research and educational practice: The qualities of a close relationship. *British Educational Research Journal*, 47(6), 1466–1489. <https://doi.org/10.1002/berj.3626>

Y.L.M., D. (2020, July 3). *Covid-19: What does the 'new normal' mean?*The Star Online. <https://www.thestar.com.my/lifestyle/health/2020/05/21/covid-19-what-does-the-039new-normal039-mean>.