REFERENCES

- Alonzo, A. C., & Gearhart, m. (2006). Considering Learning progressions From a Classroom Assessment perspective. Measurement: Interdisciplinary Research and Perspectives, 4(1–2), 99–126.

- Alonzo, A. C., & Steedle, J. t. (2009). Developing and accessing a force and motion learning progression. Science Education, 93(3), 389–421.

- Alonzo, A.C., Neidorf, T., & Anderson, C.W. (forthcoming). Using learning progressions to inform large-scale assessment. In A. C. Alonzo and A.W. Gotwals, A. W. (Eds.), *Learning progressions in science*. Rotterdam,The Netherlands: Sense Partners

- Asthana, Bipin, Dr. and Agarwal, N. R. (1994). Measurement and evaluation in psychology and education. Agra: published by Vinod. Pustak.Mandir

- Avinash. (Mrs). Dr. (2005). Manual for Science Attitude Scale (SAS-GA,). Agra: National Psychology Corporation.

- Becker, B. (2013). Learning analytics: Insights into the natural learning behaviour students. *Behavioral & Social Sciences Librarian, 32*(1), 63-67.

- Binaimah, K (1989). The process and outcomes of gender bias in elementary schools. A Nigerian Case. *Journal ofNigro Education,* 58(1), 50 - 57.

- Corcoran, T., Mosher, F. A., & Rogat, A. (2009). *Learning progressions in science: An evidence-based approach to reform* (CPRE Research Report RR-63). Philadelphia, PA: Consortium for Policy Research in Education.*Current theory and practice*. Springer.

- Daniel, B. K. (Ed.). (2016). *Big data and learning analytics in higher education:*

- Dogra, B. (2015). Constructivist classroom activities for Biology learning. Retrospective Theses and Dissertations.

- Duncan, R. G., & Hmelo-Silver, C. E. (2009). Learning progressions: Aligning curriculum, instruction, and assessment. *Journal of Research in Science Teaching.*

- Duncan, R. G., Rogat, A., & Yarden, A. (2007) Learning Progression in Genetics.

- Fensham,p.(1994).progression in school science curriculum: A rational prospect orachimera?*ResearchinScienceEducation,24*(1),76–82.

- Fridler, V. and Tamir, P. (1990). Sex differences in Science Education in Latest : An analysis of 15 years of research. *Research in Science and Technological Education,* 8(1), 21-34.

- Haseen Taj. (2011). An article on Constructivist Approach to Teaching and Learning Edutracks. 12(2)

- Intili, D. (1996). A gender difference in visual-spatial ability in 4-year-old children : Effects on performance a kinesthetic acuity task. *Journal of Experimental Child Psychology,* 63(2), 436-446.

- Jennifer L. Kobrin Pearson, Sarah Larson, Ashley Cromwell, Patricia Garza (2015). A Framework for Evaluating Learning Progressions on Features Related to Their Intended Uses. Journal of Educational Research and Practice 2015, Volume 5, Issue 1, Pages 58–73 ©Walden University, LLC, Minneapolis, MN DOI: 10.5590/JERAP.2015.05.1.04

- John T. Avella, Mansureh Kebritchi, Sandra G. Nunn, Therese Kanai (2016). Learning Analytics Methods, Benefits, and Challenges in Higher Education: A Systematic Literature Review.

- Jordan, T. T. (2000). A study of the effects of an integrated activity-based curriculum on students' achievement, science process skills and science attitude. *Dissertation abstracts International.*

- Julia Svoboda Gouvea (2019). Recent Progress in Learning Progressions Research

- Kadem, S. (2013). Effectiveness of constructivist approach on the achievement in science of IX standard students. Edutracks, 12(9), 23-31.

- Khan, S. H. (2014). Constructivism: An Innovative Teaching method in Science Teaching. Edutracks, 14(1), 42-45.

- Kharkongor, Y. (1980). A study of attitude of high school students towards science subject dissertation. Education department, NEHU Kohima.

- Krajcik, J, Shin, N., Stevens, S. Y., & Short, H. (2009) Using Learning Progressions to Inform the Design of Coherent Science Curriculum Materials. Paper presented at the Annual Meeting of the American Education Research Association, San Diego, CA.

- Lamar (2014). Attitude of higher secondary students in Shillong towards mathematics, IOSR, Journal of humanities and social science, 19 (3), 42 - 45.

- MazumdarAngira (1991) A study of the relationship between attitudes towards

and achievement in English of Standard IX students in Guwahati city, Dissertation NEHU

- McComack, K, L. and McLead, M, M (1988). Gender Bias in the prediction of college course performance. *Journal of Educational Measurement,* 25(4), 321-331.

- Merrit, J. D., Krajcik, J., Shwartz, Y. (2008) Development of a Learning Progression for the Particle Model of Matter.

- Mohan, L., Chen, J., Anderson, C. W., (n.d.) Developing a Multi-year Learning Progression for Carbon Cycling in Socio-Ecological Systems. Submitted to *Journal of Research in Science Teaching.*

- Ojha, N.C., Arya, R. & Shekhar, R. (2015). Constructive approach and traditional approach of teaching english to class vi in terms of achievement: a comparative study. *Pedagogy of Learning, Vol.1* (1), pp.25-37.

- Plummer, J. D., & Maynard, L. (2014). Building a learning progression for celestial motion: An exploration of students' reasoning about the seasons. *Journal of Research in Science Teaching, 51*(7).

- Ramulu, A. (2015). Enhancement of student learning in Biology using Constructivism. Edutracks, 14(7), 20-22.

- Rose, R. J.; Hall, C.W.; Bolen, L.M. and Webster, R.E. (1996). Locus of control and college students' approaches to learning. *Psychological Reports,* 79(1), 163-171.

- Ross, A. A. (2006). The Effects of Constructivist Teaching Approaches on Middle School Students' Algebraic Understanding. A Dissertation Submitted to the Office of Graduate Studies of Texas A&M University in partial fulfilment of the requirements for the degree of Doctor of Philosophy.

- Sekar and Mani (2013). Science attitude of higher secondary students, Indian journal of research, 2 (11), 50 - 51.

- Singh, S., et al., (2015). Constructivism in Science classroom; Why and How? International Journal of Scientific and Research Publication Vol – 5

- Tamboli (2014). A study of religiosity, modernization, science attitude among educated mothers of secondary school children, Edutracks, 13 (9), 20 - 23.

- Tom Gallacher and Martin Johnson, (2019) Learning Progression - A Theoretical and Historical Discussion.