

References

- Ncert, Ncert. (2007). National Curriculum Framework 2005. esocialsciences.com, Working Papers.
- Verschaffel, L., Van Dooren, W., & De Smedt, B. (2012). Mathematical Learning. *Encyclopedia of the Sciences of Learning*, 2107–2110.
https://doi.org/10.1007/978-1-4419-1428-6_448
- Britannica, T. Editors of Encyclopaedia (2021, April 6). Integer. Encyclopedia Britannica. <https://www.britannica.com/science/integer>
- Ibrar, S. C. A. M. (2019, January 16). 56% of Class VIII students can't do basic maths, 27% can't read: Report. *The Times of India*.
<https://timesofindia.indiatimes.com/home/education/news/56-of-class-viii-students-cant-do-basic-maths-27-cant-read-report/articleshow/67548851.cms>
- Chowdhury, S. R. (2017, October 15). Why children do well in 'street maths' but not in the classroom: Researchers fault teaching methods. *Scroll.In*.
<https://scroll.in/article/850763/why-children-do-well-in-street-maths-but-not-in-the-classroom-researchers-fault-teaching-methods>
- Sanghera, T. (2019, January 19). Fewer children out of school, but basic skills stay out of reach: Study. *Business Standard*.
https://www.business-standard.com/article/economy-policy/fewer-children-out-of-school-but-basic-skills-stay-out-of-reach-study-119011900784_1.html
- Pratham. (2020, January). *Annual status of education report (rural) 2019*. ASER Centre.
<http://img.asercentre.org/docs/ASER%202019/ASER2019%20report%20/aser-report2019earlyyearsfinal.pdf>



- NCERT, New Delhi & Unicef. (2019, February). *National Achievement Survey (NAS) 2017* (ISBN 978–93-5292-299-4). Ministry of Human Resource Development, GoI. https://ncert.nic.in/pdf/NAS/WithReleaseDate_NPPTL.pdf
- Hariyani, S. (2018). Errors Identification In Solving Arithmetic Problems. *Proceedings of the Annual Conference on Social Sciences and Humanities*. Published. <https://doi.org/10.5220/0007420603570360>
- Wessman-Enzinger, N. M., & Mooney, E. S. (2014). Making Sense of Integers through Storytelling. *Mathematics Teaching in the Middle School*, 20(4), 202–205. <https://doi.org/10.5951/mathteacmiddscho.20.4.0202>
- Brijlall, D., Ndlovu, Z., 2013. High school learners' mental construction during solving optimisation problems in Calculus: a South African case study. *South African Journal of Education*. 33(2), 1–18.
- Karwowski, M., 2009. I'm creative, but am I Creative? Similarities and differences between self-evaluated Small and Big-C creativity in Poland. *The International Journal of Creativity and Problem Solving*. 19(2), 7–26.
- Maharaj, A., 2013. An APOS analysis of natural science students' understanding of derivatives. *South African Journal of Education*. 33(1), 1–19.
- Özgen, K., 2012. Examining student opinions on computer use based on the learning styles in mathematics education. *The Turkish Online Journal of Educational Technology*. 11(1), 79–93.
- Siyepu, S. W., 2013. An exploration of students' errors in derivatives in a university of technology. *Journal of Mathematical Behavior*. 32, 577–592.
- Siyepu, S. W., 2015. Analysis of errors in derivatives of trigonometric functions. *International Journal of STEM Education*. 2, 1–16.



Wareham, T., Evans, P., Rooij, I. V., 2011. What Does (and Doesn't) Make Analogical Problem Solving Easy? A Complexity-Theoretic Perspective. *The Journal of Problem Solving*, 3(2), 1–3.

White, A. L., 2009. A Reevaluation of Newman's Error Analysis. *MAV Annual Conference 2009*, 249–257.

White, A. L., 2010. Numeracy, Literacy and Newman's Error Analysis. *Journal of Science and Mathematics Education in Southeast Asia*, 33(2), 129–148.

Wijaya, A., Van Den Heuvel-Panhuizen, M., Doorman, M., Robitzsch, A., 2014. Difficulties in solving context-based PISA mathematics tasks: An analysis of students' errors. *The Mathematics Enthusiast*, 11(3), 554–584.

Bofferding, L., & Wessman-Enzinger, N. (2014). Problem: Integers: Draw or Discard! Game. *Teaching Children Mathematics*, 20(8), 476–480.

<https://doi.org/10.5951/teacchilmath.20.8.0476>

Is a Double Negative a No-No? (2016). *Mathematics Teaching in the Middle School*, 22(2), 78–80. <https://doi.org/10.5951/mathteacmiddscho.22.2.0078>

Stephan, M., & Akyuz, D. (2012). A Proposed Instructional Theory for Integer Addition and Subtraction. *Journal for Research in Mathematics Education*, 43(4), 428–464. <https://doi.org/10.5951/jresematheduc.43.4.0428>

Nataraj, M. S., & Thomas, M. O. J. (2009). Developing understanding of number system structure from the history of mathematics. *Mathematics Education Research Journal*, 21(2), 96–115. <https://doi.org/10.1007/bf03217547>

Middleton, F. (2020, June 19). *The four types of validity*. Scribbr.

<https://www.scribbr.com/methodology/types-of-validity/>

