

DAFTAR PUSTAKA

- Akbar, K. (2015, september 20). Dipetik agustus 3, 2017, dari Kompasiana.com: <http://www.kompasiana.com/www.khairulakbar.com/kurikulum-2013-dengan-pendekatan-scientific-dalam-pembelajaran-matematika>
- Anton E. Lawson, S. A. (2000). What Kinds of Scientific Concepts Exist Concept Construction and Intellectual Development in College Biology 37(9). *Journal of Research in Science Teaching*, 996-1018.
- Bachtiar, R. W. (2013). Pengembangan Instrumen Pengukuran Kemampuan Penalaran Ilmiah Fisika. hal. 1-7.
- Bradley J. Morris, S. C. (2012). The Emergence of Scientific Reasoning (4). *In Tech Open Science*, 1-22.
- Courville, T. G. (2004). *An Empirical Comparison of Item Response Theory and Classical Test Theory Item/Person Statistics (Disertasi)*. Texas A&M University.
- Creswell, J. W. (2015). *Research Design : Qualitative, Quantitative, and Mixed Methods Approach (terjemahan)*. Yogyakarta: Pustaka Pelajar.
- Demars, C. (2010). *Item Response Theory Understanding Statistics Measurement*. Oxford: Oxford University Press, Inc.
- Dr. Zainal Arifin, M. (2016). *Evaluasi Pembelajaran*. Bandung: PT. Remaja Rosdakarya.
- Hambleton, R. K. (1875). *Item Response Theory : Introduction and Bibliography*. USA: Massachusetts University.
- Hambleton, R. K. (1985). *Item Response Theory : Introduction and Bibliography*. *University of Massachusetts at Amherst, USA*.
- Han, J. (2013). *Scientific Reasoning : Research, Development, and Assessment (Disertasi)*. Ohio State: The Ohio State University.
- Hanson, S. T. (2016). *The Assessment Of Scientific Reasoning Skills of High School Science Student: A Standardized Assessment Instrumen (Tesis)*. Illionis: Illionis State University.
- Harrison, D. M. (2015). *Factors correlated with students' scientific reasoning ability in an introductory university physics course (Tesis)*. Canada: University of Toronto.
- Hwaters. (2003). *Scientific Reasoning*. Stony Brook University press.

- Joep van der Graaf, E. S. (2014). Scientific reasoning abilities in kindergarten: dynamic assessment of the control of variables strategy 43(3). *Instructional Science*, 382.
- John D. Bransford, A. L. (1999). *How People Learn*. Washington, D.C: National Academy Press.
- Kalolo, J. F. (2014). *Improving the Quality of Science Education in Tanzanian Junior Secondary School: The Stakeholders' Perspective, Issue, and Promising Practices*. Wellington City: Victoria University of Wellington.
- Kathleen Koenig, M. S. (2012). Explicitly Targeting Pre-service Teacher Scientific Reasoning Abilities and Understanding of Nature of Science through an Introductory Science Course 21(2). *Science Educator*, 2.
- Kemdikbud RI. (2014, 1 14). Dipetik 8 3, 2017, dari kemdikbud.go.id: <https://kemdikbud.go.id/kemdikbud/dokumen/Paparan/Paparan%20Wame ndik.pdf>
- Kurniawan, D. D. (2015). Analisis Kualitas Soal Ujian Akhir Semester Matematika Berdasarkan Analisis Teori Respon Butir. *Prosiding Seminar Nasional Matematika dan Pendidikan Matematika UMS*, (hal. 1-10). Yogyakarta.
- L.Ar Buckley, R. M. (2014). *Education for the 21st Century: Executive Summary*. Cambridge: Harvard Advanced Leadership Initiative.
- Lawson, A. E. (1978). The Development and Validation of a Classroom Test of Formal Reasoning 15(1). *Journal of Research in Science Teaching*, 11-24.
- Lawson, A. E. (2000). Development and Validation of the Classroom Test of Formal Reasoning 15(1). *Journal of Research in Science Teaching*, 11-24.
- Lei Bao, *. T. (2009). Learning and Scientific Reasoning 323(586). *Science AAAS*, 1-9.
- Lei Bao, e. (2013). *Reasearch*. Dipetik februari 11, 2017, dari iStar Assessment: <http://www.istarassessment.org/>
- Mahanani. (2015). *Analisis Soal International Competitions and Assessment for School (ICAS) dengan Menggunakan Metode Item Response Theor (IRT) DAN CLASSICAL TEST THEORY (CTT) (Skripsi)*. Semarang: UNS.
- Markawi, N. (2015). Pengaruh keterampilan proses sains, penalaran, dan pemecahan masalah terhadap hasil belajar 3(1). *Jurnal Formatif*, 11-25.
- Phillips, V. P. (2005). Interpreting FCI scores: Normalized gain, preinstruction scores, and scientific reasoning ability 73(12). *American Journal of Physics*, 1172-1182.

- Pratiwi, P. A. (2014). *Penerapan Levels Of Inquiry Untuk Meningkatkan Achievement Siswa SMP Pada Pokok Bahasan Optik*. Diambil kembali dari UPI Digital Repository: http://repository.upi.edu/11441/6/S_FIS_1000294_Chapter3.pdf
- Purwoko, & E. (2009). *Physics for Senior High School Year X*. Jakarta Timur: Yudhistira.
- Retnawati, H. (2014). *Teori Respons Butir dan Penerapannya*. Yogyakarta: Nuha Medika.
- Retnawati, H. (2015, Maret). Karakteristik Butir Tes dan Analisisnya. *Workshop Penyusunan Instrumen Uji Kompetensi Guru* (hal. 1-11). Yogyakarta: Publikasi Terbatas.
- Retnawati, H. (2016). *Analisis Kuantitatif Instrumen Penelitian*. Yogyakarta: Parama Publishing.
- Robert Syrman, d. (2011). *Physics for grade X*. Jakarta Timur: PT. Nusantaralestari Ceriapratama.
- Ronald K. Hambleton, H. S. (1991). *Fundamental of Item Response Theory*. London UK: Sage Publication, inc.
- She, C.-Q. L.-C. (2010). Facilitating Students' Conceptual Change and Scientific Reasoning Involving the Unit of Combustion (40). *Science Education*, 479-504.
- Sugiyono, P. D. (2016). *Metode Penelitian Kombinasi*. Bandung: Alfabeta.
- Suseno, M. N. (2014). Pengembangan Pengujian Validitas Isi dan Validitas Konstrak: Interpretasi Hasil Pengujian Validitas. *Seminar Nasional Psikometri* (hal. 70-83). Yogyakarta: Publikasi Ilmiah.
- Suwarto. (2011). Teori Tes Klasik dan Teori Tes Modern 20(1). *Widyatama*, 1-10.
- Swaminathan, R. K. (1985). *Item Response Theory: Principles and Applications . Evaluation in Education and Human Services*, 1-340.
- Widhiarso, B. S. (September 2015). *Aplikasi Pemodelan RASCH Pada Assessment Pendidikan*. Cmah: Trisma Komunikasi.
- Zimmerman, C. (2000). The Development of Scientific Reasoning (20). *Developmental Review*, 99-149.
- Zimmerman, C. (2005). *The Development of Scientific Reasoning Skills*. Illionis State: National Research Council Committee on Science Learning Kindergarten through Eighth Grade.

Zimmerman, C. (2007). The development of scientific thinking skills in Elementary and Middle School (27). *Science Direct Journal*, 172-223.