

DAFTAR PUSTAKA

- Ainsworth, S. (1999). The functions of multiple representations. *Computers & Education*, 33(2-3), 131-152. doi: 10.1016/S0360-1315(99)00029-9
- Ainsworth, S., & Van Labeke, N. (2004). Multiple forms of dynamic representation. *Learning and Instruction*, 14(3), 241-255. doi: <http://dx.doi.org/doi:10.1016/j.learninstruc.2004.06.002>
- Aminudin, D., Sutiadi, A., & Samsudin, A. (2013). Profil konsistensi representasi dan konsistensi ilmiah siswa SMP pada konsep gerak. *WePFI*, 1(3), 1-8. Tersedia di: <http://fpmipa.upi.edu/journal/v1/index.php/WePFI/article/viewFile/117/87>
- Anglin, G.J., Vaez, H., & Cunningham, K.L. (n.d). *Visual representations and learning: The role of static and animated graphics*. 865-916. Tersedia di http://studyonthebeach.com/csusb/classes/archive/fall2008/etec_674_fall_2008/readings/33.pdf
- Arikunto, S. (2012). *Dasar-dasar Evaluasi Pendidikan*. Edisi Kedua. Jakarta: Bumi Aksara.
- Bektasli, B. (2006). *The relationships between spatial ability, logical thinking, mathematics performance and kinematics graph interpretation skills of 12th grade physics students* (Doctoral dissertation, The Ohio State University). Diakses dari https://etd.ohiolink.edu/!etd.send_file?accession=osu1149269242&disposition=inline
- Cummins, D.D. dkk. (1988). The role of understanding in solving word problems. *Cognitive Psychology*, 20(4), 405-438. doi: 10.1016/0010-0285(88)90011-4
- Duval, R. (1999). Representation, vision and visualization:cognitive functions in mathematical thinking. Basic issues for learning. *Proceedings of the Annual Meeting of the North American Chapter of the International Group*

- for the *Psychology of Mathematics Education*, Cuernavaca, Morelos, Mexico, SC (hlm. 3-26). Diakses dari <http://www.eric.ed.gov>
- Godino, J.D., & Font, V. (2010). The theory of representations as viewed from the onto-semiotic approach to mathematics education. *Mediterranean Journal for Research in Mathematics Education*, 9(1), 190-210. Tersedia di <http://webs.ono.com/vicencfont/MJREM%20representations.pdf>
- Goldin, G. (2008). Perspectives on representation in mathematical learning and problem solving. Dalam Lyn D. English (Penyunting), *Handbook of International Research in Mathematics Education* (Second Edition) (hlm. 176-201). Tersedia di http://books.google.co.id/books?id=ggU3AgAAQBAJ&pg=PA176&dq=Representation+in+Mathematical+Learning+and+Problem+Solving&hl=id&sa=X&ei=GvM7U-7cNcWPrge-_oHICw&redir_esc=y#v=onepage&q=Representation%20in%20Mathematical%20Learning%20and%20Problem%20Solving&f=false
- Goldin, G.A., & Kaput, J.J. (1996). *A joint perspective on the idea of representation in learning and doing mathematics*. Tersedia di <http://www.webdelprofesor.ula.ve/ciencias/lico/Mateducativa/Golding.doc>
- Heckler, A.F. (2011). The Ubiquitous Patterns of Incorrect Answers to Science Questions: The Role of Automatic, Bottom-up Processes. *Psychology of Learning and Motivation*, 55, hlm. 227-261. Tersedia di http://14.139.43.151:8080/get/pdf/THE%20PSYCHOLOGY%20OF%20LEARNING%20AND%20MOTIVATION_%20Cognition%20in%20Education,%20Vol.%2055%20-%20Jose%20P.%20Mestre%20%26amp%3B%20Brian%20H.%20Ross_3603.pdf
- Hwang, W.Y., Chen, N.S., Dung, J.J., & Yang, Y.L. (2007). Multiple representation skills and creativity effects on mathematical problem solving using a multimedia whiteboard system. *Educational Technology & Society*, 10(2), 191-212. Tersedia di:

<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.134.514&rep=rep1&type=pdf>

Kaput, J.J. (1999). Representations, inscriptions, descriptions and learning: A kaleidoscope of windows. Tersedia di www.kaputcenter.umassd.edu/downloads/products/publications/kaputreport.pdf

Koedinger, K.R., & Nathan, M.J. (2004). The real story behind story problems: effects of representations on quantitative reasoning. *The Journal of The Learning Sciences*, 13(2), 129-164. doi: 10.1207/s15327809jls1302_1

Kozhevnikov, M., Hegarty, M., & Mayer, R. (1999). *Students' use of imagery in solving qualitative problems in kinematics*. Diakses dari <http://www.eric.ed.gov>

Kozhevnikov, M., Hegarty, M., & Mayer, R.E. (2002). Revising the visualizer-verbalizer dimension: evidence for two types of visualizers. *Cognition and Instruction*, 20(1), 44-47. doi: 10.1207/S1532690XCI2001_3

Kozhevnikov, M., Motes, M.A., & Hegarty, M. (2007). Spatial visualization in physics problem solving. *Cognitive Science*, 31(4), 549-579. doi: 10.1080/15326900701399897

Kohl, P.B., & Finkelstein N.D. (2005). Student representational competence and self-assessment when solving physics problems. *Physical Review ST Physics Education Research*, 1(1), 010104-1 - 010104-11. doi: 10.1103/PhysRevSTPER.1.010104

Kohl, P.B., & Finkelstein, N.D. (2006). Effects of representation on students solving physics problems: A fine-grained characterization. *Physical Review ST Physics Education Research*, 2(1), 010106-1 - 010106-12. doi: 10.1103/PhysRevSTPER.2.010106

Lesser, L.M., & Tchoshanov, M.A. (2005). The effect of representation and representational sequence on students' understanding, research report. Dalam Lloyd, G.M., Wilson, M., Wilkins, J.L.M., & Behm, S.L. (Penyunting), *Proceedings of the 27th annual meeting of the North American Chapter of the International Group for the Psychology of*

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PROFIL KONSISTENSI REPRESENTASI DAN KONSISTENSI ILMIAH SISWA SMA NEGERI DI KOTA BANDUNG PADA MATERI KINEMATIKA GERAK LURUS

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- Mathematics Education*. Virginia Tech (hlm. 1-7). Tersedia di <http://www.math.utep.edu/Faculty/lesser/pmena05.pdf>
- Linn, M.C., & Petersen, A.C. (1985). Emergence and characterization of sex differences in spatial ability: a meta-analysis. *Child Development*, 56(6), 1479-1498. doi: 10.1111/j.1467-8624.1985.tb00213.x
- Meltzer, D.E. (2005). Relation between students' problem-solving performance and representational format. *American Journal of Physics*, 73(5), 463-478. doi: 10.1119/1.1862636
- McDermott, L.C., Rosenquist, M.L., & van Zee, E.H. (1987). Student difficulties in connecting graphs and physics: examples from kinematics. *American Journal of Physics*, 55(6), 503-513. doi: <http://dx.doi.org/10.1119/1.15104>
- Nieminen, P., Savinainen, A., & Viiri, J. (2010). Force concept inventory-based multiple-choice test for investigating students' representational consistency. *Physical Review ST Physics Education Research*, 6(2), 020109-1 – 020109-12. doi: 10.1103/PhysRevSTPER.6.020109
- Nieminen, P., Savinainen, A., & Viiri, J. (2012). Relation between representational consistency, conceptual understanding of the force concept, and scientific reasoning. *Physical Review ST Physics Education Research*, 8(1), 010123-1 – 010123-10. doi: 10.1103/PhysRevSTPER.8.010123
- Nieminen, P. (2013). *Representational consistency and the learning of forces in upper secondary school physics* (Doctoral dissertation, University of Jyväskylä, Jyväskylä, Finlandia). Tersedia di https://jyx.jyu.fi/dspace/bitstream/handle/123456789/41536/978-951-39-5217-4_vaitos31052013.pdf?sequence=1
- Nurzaman, I. (2014). *Peningkatan konsistensi representasi dan konsistensi ilmiah siswa SMA pada mata pelajaran fisika melalui model Pembelajaran Berbasis Masalah (PBM)* (Skripsi tidak diterbitkan). Universitas Pendidikan Indonesia, Bandung.
- Ostad, S.A. (n.d.). Memahami dan menangani bilangan. Dalam Didi Tarsidi (Penyunting), *Education-Special Needs Education*. Tersedia di Dani Ramdani Badruzzaman, 2015
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- http://www.idp-europe.org/docs/uio_upi_inclusion_book/13-Memahami_dan_Menangan_Bilangan.pdf
- PPDB Online Kota Bandung. (2014). Rekapitulasi SMA AKADEMIK PPDB 2014. Tersedia di: <http://www.ppdbkotabandung.web.id/#/rekapitulasi/SMA>. Diakses 28 Agustus 2014.
- Redish, E. (2005, Agustus 21-22). *Problem Solving and the Use of Math in Physics Courses*. Paper presented at World View on Physics Education in 2005, Delhi. Diakses 7 Januari 2015, dari <http://www.physics.umd.edu/perg/papers/redish/IndiaMath.pdf>
- Rosengrant, D., Etkina, E., & Van Heuvelen, A. (2006, Juli 26-27). *An Overview of Recent Research on Multiple Representations*. Paper presented at Physics Education Research Conference 2006, Syracuse, New York. Diakses 13 Maret 2014, dari <http://www.compadre.org/Repository/document/ServeFile.cfm?ID=5264&DocID=2129>
- Roth, W.M., & McGinn, M.K. (1997). Graphing: cognitive ability or practice? *Science Education*, 81(1), 91-106. doi: 10.1002/(SICI)1098-237X(199701)81:1<91::AID-SCE5>3.0.CO;2-X
- Rutgers Physics and Astronomy Education Research Group. (n.d.). *Multiple Representations*. Tersedia di: <http://paer.rutgers.edu/scientificAbilities/Downloads/FormAssessTasks/MultRep.pdf>
- Serway, R.A., & Jewett, J.W. (2004). *Physics for scientists and engineers*. Edisi ke 6. Diakses dari https://docs.google.com/uc?id=0B6B5goj5mqo_ME5tcTRFLThkMIE&export=download
- Sherin, B.L. (2001). How students understand physics equations. *Cognition and Instruction*, 19(4), 479-541. doi: 10.1207/S1532690XCII1904_3
- Sriyansyah, S.P. (2015). *Penerapan pembelajaran konseptual interaktif dengan pendekatan multirepresentasi untuk meningkatkan konsistensi ilmiah dan*

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PROFIL KONSISTENSI REPRESENTASI DAN KONSISTENSI ILMIAH SISWA SMA NEGERI DI KOTA BANDUNG PADA MATERI KINEMATIKA GERAK LURUS

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menurunkan kuantitas mahasiswa yang miskonsepsi pada materi termodinamika (Tesis tidak diterbitkan). Sekolah Pasca Sarjana, Universitas Pendidikan Indonesia, Bandung.

Sugiyono. (2011). *Statistika untuk penelitian*. Bandung: Alfabeta.

Sugiyono. (2012). *Metode penelitian bisnis (pendekatan kuantitatif, kualitatif, dan R&D)*. Bandung: Alfabeta.

Suhandi, A., & Wibowo, F.C. (2012). Pendekatan multirepresentasi dalam pembelajaran usaha-energi dan dampak terhadap pemahaman konsep mahasiswa. *Jurnal Pendidikan Fisika Indonesia*, 8, 1-7. Tersedia di: http://undana.ac.id/jsmallfib_top/JURNAL/PENDIDIKAN/PENDIDIKAN_2012/PENDEKATAN%20MULTIREPRESENTASI%20DALAM%20PEMBELAJARAN.pdf

Trowbridge, D.E., & McDermott, L.C. (1980). Investigation of student understanding of the concept of velocity in one dimension. *American Journal of Physics*, 48(12), 1020-1028. doi: <http://dx.doi.org/10.1119/1.12298>

Van Heuvelen, A., & Zou, X. (2001). Multiple representations of work–energy processes. *American Journal of Physics*, 69(2), 184-194. doi: 10.1119/1.1286662

Waldrip, B., Prain, V., & Carolan, J. (2006). Learning junior secondary science through multi-modal representations. *Electronic Journal of Science Education*, 11(1), 87-107. Tersedia di <http://ejse.southwestern.edu/article/download/7752/5519>

Zhang, J. (1997). The nature of external representations in problem solving. *Cognitive Science* 21(2), 179-217. Tersedia di http://onlinelibrary.wiley.com/doi/10.1207/s15516709cog2102_3/pdf