

## REFERENCES

- Alrashidi, O. (2016). An overview of four proposed indicators of active learning to improve English teaching and learning in Saudi Arabia. *International Journal of English Language Education*, 4(2), 50–69.
- Amah, N., & Nugroho, A. (2016). Pengaruh fasilitas sekolah terhadap hasil belajar akuntansi dengan lingkungan sosial sebagai pemoderasi. *Journal of Accounting and Business Education*, 2(4).
- Amer, A. (2005). *Analytical thinking*. Cairo University.
- Ardianti, R., Sujarwanto, E., & Surahman, E. (2021). Problem-based learning: apa dan bagaimana. *Journal for Physics Education and Applied Physics*, 3(1), 27–35.
- Aspers, P., & Corte, U. (2021). What is Qualitative in Research. *Qualitative Sociology*, 44(4), 599–608. <https://doi.org/10.1007/s11133-021-09497-w>
- Baghaei, L. A., & Ghaffarzadegan, N. (2016). The dual-process theory and understanding of stocks and flows. *System Dynamics Review*, 32(1), 309–331.
- Burns, B. D., Zhang, Y., Wieth, M., & Touyz, S. (2017). An exploratory study of creativity and eating disorders. *Journal of Eating Disorders*, 5(1), 536–556. <https://doi.org/https://doi.org/10.1186/s40337-017-0176-9>
- Chayani, A., & Januardi, J. (2019). Pengaruh fasilitas sekolah terhadap hasil belajar siswa di SMK Negeri 1 Pendopo Pali. *Jurnal Neraca: Jurnal Pendidikan Dan Ilmu Ekonomi Akuntansi*, 3(2), 249–258.
- Chen, P. Z., Chang, T. C., & Wu, C. L. (2020). Effects of gamified classroom management on the divergent thinking and creative tendency of elementary students. *Thinking Skills and Creativity*, 36(1), 1–9. <https://doi.org/https://doi.org/10.1016/j.tsc.2020.100664>
- Cohen, R., Allaby, C., Cumbaa, C., Fitzgerald, M., Ho, K., Hui, B., Latulipe, C., Lu, F., Moussa, N., Pooley, D., Qian, A., & Siddiqi, S. (1998). What is initiative? *User Modeling and User-Adapted Interaction*, 8(3–4), 171–214. <https://doi.org/10.1023/a:1008398023083>

- Cresswell, J. W. (2011). *Educational Research* (P. A. Smith (ed.); 4th ed.). Pearson.
- Cruz-Sandoval, M., Parra, J. C. V., Carlos-Arroyo, M., & Medina-Vidal, A. (2023). Competency-based learning: An approach integrating the domains of complex thinking competency in a group of Mexican students. *European Journal of Contemporary Education*, 12(2).
- Daulay, S. H., Fitriani, S. F., & Ningsih, E. W. (2022). Pengaruh fasilitas sekolah terhadap kemampuan dan motivasi belajar siswa. *Edukatif: Jurnal Ilmu Pendidikan*, 4(3), 3731–3738.
- Djamarah, S. B. (2010). *Guru dan anak didik interaksi edukatif*. PT Rineka Cipta.
- Durning, S. J., Dong, T., Artino, A. R., Vleuten, C., Holmboe, E., & Schuwirth, L. (2015). Dual processing theory and experts reasoning: exploring thinking on national multiple-choice questions. *Cross Mark*, 4, 168–175.
- Elizya, E., Al Bahij, A., Iswan, Mufidah, L., & Damayyanti, A. (2024). Pengaruh peran guru dalam meningkatkan motivasi belajar siswa kelas 1 di MI Muhammadiyah Butuh 02. *Seminar Nasional Dan Publikasi Imiah 2024*, 1292–1302.
- Ellen, K. K., & Sudimantara, L. B. (2023). Examining emancipated curriculum development in middle schools : A case study. *PANYONARA: Journal of English Education*, 5(2), 165–188.  
<https://doi.org/10.19105/panyonara.v5i2.8779>
- Facione, P. A. (2015). *Critical thinking : what it is and why it counts*. National Center for Educational Statistics (NCES) Documents National Assessment of College Student Learning: Getting Started, A Summary of Beginning Activities.
- Ferdaus, S. A., & Novita, D. (2023). The implementation of the merdeka curriculum in English subject at a vocational high school in Indonesia. *Jurnal Riset Dan Konseptual*, 8(2), 297–310.  
<https://doi.org/http://dx.doi.org/10.28926/briliant.v8i2. 1201>
- Fitra, H., Swandi, A., Rahmadinanningsi, S., Syam, U., Rampeng, & January, R. (2021). Pengaruh karakteristik guru terhadap motivasi dan pola belajar siswa.

- Jurnal of Education, Language Teaching and Science*, 3(1), 52–61.
- Fitriani, & Fadly, W. (2022). Level analysis and supporting factors of thinking ability analytical in solving problem based problems reviewed from the learning styles of students. *Integrative Science Education and Teaching Activity Journal*, 3(2), 194–204.
- Frensch, P. A., & Funke, J. (1995). *Complex problem solving: The European perspective*. Hillsdale: Lawrence Erlbaum Associates.
- Funke, J. (2010). Complex problem solving: a case for complex cognition? *Cogn. Process*, 11(1), 133–142. <https://doi.org/10.1007/s10339-009-0345-0>
- Funke, J. (2012). Complex problem solving. In *Encyclopedia of the Sciences of Learning* (pp. 682–685). Heidelberg: Springer.
- Gunardi. (2020). Inquiry-based learning dapat meningkatkan hasil belajar siswa dalam pelajaran matematika. *Workshop Nasional Pengukuran Kompetensi Guru Sekolah Dasar*, 3(3), 2288–2294.
- Hadi, A., Marniati, M., Ngindana, R., Kurdi, M. S., Kurdi, M. S., & Fauziah, F. (2023). New paradigm of merdeka belajar curriculum in schools. *AL-ISHLAH: Jurnal Pendidikan*, 15(2), 1497–1510. <https://doi.org/10.35445/alishlah.v15i2.3126>
- Hamdu, G., & Agustina, L. (2011). Pengaruh motivasi belajar siswa terhadap prestasibelajar IPA di Sekolah Dasar. *Jurnal Penelitian Pendidikan*, 12(1), 90–96.
- Harahap, L. J., Ristanto, R. H., & Komala, R. (2020). Assesing critical thinking skills and mastery concepts: the case of ecosystem material. *EDUSAINS*, 12(2), 223–232.
- Hasin, M. I. A. (2018). *Pengaruh efikasi diri terhadap kemampuan problem solving siswa kelas XI IPA MA Miftahul Ulum Jatiroti Lumajang*. Universitas Islam Negeri Maulana Malik Ibrahim Malang.
- Hattie, J. A. C., & Donoghue, G. M. (2016). Learning strategies : a synthesis and conceptual model. *Nature Publishing Group*, 1(1), 1–13. <https://doi.org/10.1038/npjscilearn.2016.13>
- Hittmár, Š., Varmus, M., & Lendel, V. (2014). Proposal of model for effective

- implementation of innovation strategy to business. *Procedia - Social and Behavioral Sciences*, 109(1), 1194–1198.  
<https://doi.org/10.1016/j.sbspro.2013.12.611>
- Hmelo-Silver, C. E. (2004). Problem-based learning: What and how do students learn? *Education Psychology Review*, 16, 235–266.
- Indiarti, C. L., Poerwanti, J. I. S., & Sularmi. (2022). Analisis kemampuan berpikir kritis dalam materi interaksi sosial pada pembelajaran IPS kelas V sekolah dasar. *Didaktika Dwija Indria*, 10(1), 449–456.
- Kaba, E., Stavropoulou, A., Kelesi, M., Triantafyllou, A., Goula, A., & Fasoi, G. (2021). Ten Key Steps to Writing a Protocol for a Qualitative Research Study: A Guide for Nurses and Health Professionals. *Global Journal of Health Science*, 13(6), 58. <https://doi.org/10.5539/gjhs.v13n6p58>
- Kamila, S. N., & Agus, A. H. (2023). Implementation of merdeka curriculum in improving the quality of senior high school. *Jurnal Educatio*, 9(1), 394–401.  
<https://doi.org/10.31949/educatio.v9i1.4591>
- Kell, P., & Vogl, G. (2012). *International students in the Asia Pacific: Mobility, risks, and global optimism*. Springer.
- Kemendikbudristek. (2022). *Kurikulum merdeka*. Direktorat Sekolah Dasar.  
<https://ditpsd.kemdikbud.go.id/hal/kurikulum-merdeka>
- Kim, J., & Maloney, E. J. (2020). *Learning innovation and the future of higher education*. JHU Press.
- Kokotsaki, D., Menzies, V., & Wiggins, A. (2016). Project-based learning: A review of the literature. 19(3).
- Kurt, O. E., Ucler, C., & Vayvay, O. (2017). From ideation towards innovation: pillars of front-end in new product development. *2nd World Conference on Technology , Innovation and Entrepreneurship*, 12(1), 71–79.  
<https://doi.org/10.17261/Pressacademia.2017.72>
- Kwangmuang, P., Jarutkamolpong, S., Sangboonraung, W., & Daungtod, S. (2021). The development of learning innovation to enhance higher order thinking skills for students in Thailand junior high schools. *Heliyon*, 7(1), 1–13. <https://doi.org/10.1016/j.heliyon.2021.e07309>

- Latifa, H., Ratih, K., & Maryadi. (2024). Junior high school English teachers ' planning on merdeka curriculum. *Ebglish Review: Journal of English Education*, 12(1), 203–212.  
<https://doi.org/https://doi.org/10.25134/erjee.v12i1.8832>
- Lester, J. N., Cho, Y., & Lochmiller, C. R. (2020). Learning to Do Qualitative Data Analysis : A Starting Point. *Human Resource Development Review*, 19(1), 94–106. <https://doi.org/10.1177/1534484320903890>
- Lian, A.-P. (2011). Reflections on language-learning in the 21 st century : The rhizome at work. *RJAS*, 1(1), 5–16. <https://doi.org/10.14456/rjas.2011.2>
- Lian, A.-P. (2016). The inexorable rise of the proletarian autodidact. In *Challenges in Global Learning* (pp. 282–313). Cambridge Scholars Publishing.
- Lian, A. (2018). Investigative minds create investigative students: English language teacher education for the 21st century. *Van Hien University Journal of Science*, 6(1), 17–23.
- Lian, A. (2020). What axioms inform your research ? dialogizing for innovation in English language and literacy pedagogy. *Advances in Social Science, Education and Humanities Research*, 394(1), 440–448.
- Lian, A., Kell, P., Black, P., & Lie, K. Y. (2017). *Challenges in global learning*. Cambridge Scholars Publishing.
- Lucas, B. (2016). A five-dimensional model of creativity and its assessment in schools. *Applied Measurement in Education*, 29(4), 278–290.  
<https://doi.org/https://doi.org/10.1080/08957347.2016.1209206>
- Megawan, M., & Istiyono, E. (2019). Physics creative thingkiing measurement using two-tier multiple choice to support science, technology, enginering, and mathematics. *International Seminar on Science Education*, 1–7.
- Nurbayan, S., Nita, Nurhijrah, & Nikman, A. (2024). *Pengaruh lingkungan keluarga terhadap motivasi belajar siswa di SMAN 3 Woja Kabupaten Dompu*. 7(2), 631.
- Nurdyansyah, F., Muflihat, I., Muliani Dwi Ujianti, R., Novita, M., Kusumo, H., . M., & Charles Ryan, J. (2022). Indonesian character building strategy:

- Planning the Pancasila student profile strengthening project in kurikulum merdeka. *KnE Social Sciences*, 2022(1), 362–369.  
<https://doi.org/10.18502/kss.v7i19.12456>
- Nurfauzan, A. Z., Almubarak, M., Abdillah, K., & Anggraini, A. (2022). Pengaruh motivasi dalam pembelajaran siswa. *Jurnal Pendidikan, Ilmu Sosial, Dan Pengabdian Kepada Masyarakat*, 2(2), 613–621.
- Oktavia, N. A., Suharno, & Suryandari, K. C. (2022). Aspect of originality thinking and flexibility thinking in terms of creative thinking skills in writing narrative essays. *The 21st International Conference of Humans and Social Science*, 2(1), 703–718.
- Oxford. (1984). *Dictionary of current English*. Oxford University Press.
- Pamungkas, M. D., Rahmawati, F., Lestari, I., & Warniasih, K. (2023). Analisis level kemampuan complex problem solving mahasiswa calon guru matematika. *Jurnal Karya Pendidikan Matematika*, 10(2), 2339–2444.
- Panggabean, F. T. M., Pardede, P. O., Sitorus, R. M. D. S., Situmorang, Y. K., Naibaho, E. S., & Simanjuntak, J. S. (2021). Application of 21st Century Learning Skills Oriented Digital-Age Literacy to Improve Student Literacy HOTS in Science Learning in Class IX SMP. *Jurnal Mantik*, 5(3), 1922–1930. <https://iocscience.org/ejournal/index.php/mantik/article/view/1796>
- Pranajaya, S. A., Azhar, A., Rijal, M. K., & Ramadan, W. (2022). The distinction of merdeka curriculum in madrasah through differentiated instruction and P5-PPRA. *Sustainable Jurnal Kajian Mutu Pendidikan*, 5(2), 463–478.
- Qolfathiriyus, A., Sujadi, I., & Indriati, D. (2019). Characteristic profile of analytical thinking in mathematics problem solving. *International Conference on Mathematics and Science Education*, 1157(1), 1–6.  
<https://doi.org/10.1088/1742-6596/1157/3/032123>
- Rachmawati, N., Marini, A., Nafiah, M., & Nurasyah, I. (2022). Projek penguatan profil pelajar pancasila dalam implementasi kurikulum prototipe di sekolah penggerak jenjang sekolah dasar. *Jurnal Basicedu*, 6(1), 3613–3625.
- Reilly, C. O., Devitt, A., & Hayes, N. (2022). Critical thinking in the preschool classroom - A systematic literature review. *Thinking Skill and Creativity*,

- 46(1), 1–20. <https://doi.org/10.1016/j.tsc.2022.101110>
- Ruslin, Mashuri, S., Rasak, M. S. A., Alhabisy, F., & Syam, H. (2022). Semi-structured Interview : A Methodological Reflection on the Development of a Qualitative Research Instrument in Educational Studies. *IOSR Journal of Research & Method in Education*, 12(1), 22–29.  
<https://doi.org/10.9790/7388-1201052229>
- Samrin, S., Syahrul, S., & Maknun, D. R. L. (2020). Pengaruh kondisi sosial ekonomi terhadap motivasi belajar siswa. *Shautut Tarbiyyah*, 26(2), 250–271.
- Schweizer, F., Wustenberg, S., & Greiff, S. (2013). Validity of the MicroDYN approach: Complex problem solving predicts school grades beyond working memory capacity. *Learning and Individual Differences*, 24, 42–52.  
<https://doi.org/https://doi.org/10.1016/j.lindif.2012.12.011>
- Settles, B. (2009). Computer sciences active learning literature survey. *University of Wisconsin Madison, January*, 1–44.
- Sivridag, F., & Mani, N. (2024). Children ' s word learning from socially contingent robots under active vs . passive learning conditions. *HRI'*, 11(14), 669–677. <https://doi.org/10.1145/3610977.3634931>
- Sudimantara, L. B. (2023). Perspective and experiences of Indonesian pre- service English teachers in developing digital learning resources. *English Review: Journal of English Education*, 11(3), 609–628.  
<https://doi.org/https://doi.org/10.25134/erjee.v11i3.7919>
- Sujadi. (2008). Rekonstruksi tingkat-tingkat berpikir probabilistik siswa sekolah menengah pertama. *Semnas Matematika Dan Pendidikan Matematika*, 2, 187–208.
- Syamsiyati, E. (2019). Penerapan metode pembelajaran “active learning-small group discussion” di perguruan tinggi sebagai upaya peningkatan proses pembelajaran. *Jurnal Pendidikan Dasar*, 3(2), 19–34.
- Tae, L. F., Ramdani, Z., Prakoso, B. H., & Amrullah, S. (2019). Systematical review and exploration of the aspect of creativity in the context of education. *International Conference on Educational Assesment and Policy*, 1, 114–119.

- <https://doi.org/10.26499/iceap.v1i1.83>
- UNICEF. (2021). *Where are we on education recovery?*
- Wastam, S., Bumela, L., & Gumiandari, S. (2023). Academic writing in the 21st century: Voices from English and Indonesian lecturers. *ELT Echo : The Journal of English Language Teaching in Foreign Language Context*, 8(1), 27–40. <https://doi.org/10.24235/eltecho.v8i1.13612>
- WEF. (2020). *These are the top 10 job skills of tomorrow – and how long it takes to learn them*. World Economic Forum.
- Weston, L. E., Krein, S. L., & Harrod, M. (2021). Using observation to better understand the healthcare context. *Qualitative Research in Medicine & Healthcare*, 5(3).
- Willingham, D. . (2007). Critical thinking: Why it is so hard to teach? *American Federation of Teachers Summer*, 8–19.
- Zhou, J., Shen, J., Wang, X., Neber, H., & Johji, I. (2013). A cross-cultural comparison: Teachers' conceptualizations of creativity. *Creativity Research Journal*, 25(3), 239–247.  
<https://doi.org/https://doi.org/10.1080/10400419.2012.730006>
- Zidan, M. R., & Qamariyah, Z. (2023). A literature study on the implementation of merdeka curriculum. *Jurnal Riset Rumpun Ilmu Bahasa*, 2(2), 153–167.  
<https://doi.org/https://doi.org/10.55606/jurribah.v2i2.1576>

