

DAFTAR RUJUKAN

- Ally, M. (2007). Foundations of Educational Theory for Online Learning. *Saint Paul University, 1977.*
- Anwar, B., Munzil, & Hidayat, A. (2017). Pengaruh Collaborative Learning Dengan Teknik Jumping Task Terhadap Keterampilan Berpikir Kritis Dan Hasil Belajar Siswa. *Jurnal Pembelajaran Sains, 1(2)*, 15–25.
- Asmendri, & Sari, M. (2018). Analisis Teori-Teori Belajar pada Pengembangan Model Blended Learning dengan facebook (MBL-FB). *Natural Science Journal, Volume 4(2)*, 604–615.
- Asnur, M. N. A., Adhima, F., Ayuwijayanti, M., & Marsuki, R. R. (2019). Karakteristik Pembelajaran Kolaboratif Bahasa Asing dalam Google Classroom. *Prosiding Seminar Nasional Literasi Bahasa Dan Sastra Ke-4 Pembelajaran Bahasa Asing Di Era Digital*, 1–11.
- Avana, N. (2018). Pengaruh Pembelajaran Aktif Tipe Collaborative Learning Groups Terhadap Pemahaman Konsep Dan kemampuan Komunikasi. *Jurnal Muara Pendidikan, 3(2)*, 148–158.
- Bigozzi, L., Tarchi, C., Fiorentini, C., Falsini, P., & Stefanelli, F. (2018). The influence of teaching approach on students' conceptual learning in physics. *Frontiers in Psychology, 9(DEC)*, 1–14.
- Corpuz, E. G. (2002). *Promoting Understanding of Physics Concepts*.
- Darvina, Y. (2008). Penyelesaian Soal-Soal Fisika Menggunakan Minnesota Problem Solving Strategy. *Seminar Nasional Fisika*.
- Dermawan, A. (2014). Keefektifan Collaborative Learning Berbasis Quiz Edutainment Terhadap Ketuntasan Hasil Belajar. *Chemistry in Education, 3(1)*.
- Ekici, E. (2016). “Why Do I Slog Through the Physics?”: Understanding high school students' difficulties in learning physics. *Journal of Education and Practice, 7(7)*, 95–107.
- Giancoli, D. C. (2014). *Fisika : Prinsip dan Aplikasi* (7th ed.). Erlangga.
- Harrell, P. E., Kirby, B., Subramaniam, K., & Long, C. (2022). Are Elementary Preservice Teachers Floating or Sinking in Their Understanding of Buoyancy? *International Journal of Science and Mathematics Education, 20(2)*, 299–320. <https://doi.org/10.1007/s10763-021-10160-7>
- Hernández, R. (2012). Collaborative Learning: Increasing Students' Engagement Outside the Classroom. *US-China Education Review, 9*, 804–812.

- Huitt, W. (2011). Bloom et al.'s taxonomy of the cognitive domain. *Educational Psychology Interactive*.
- Ibrahim, I., Kosim, K., & Gunawan, G. (2017). Pengaruh Model Pembelajaran Conceptual Understanding Procedures (CUPs) Berbantuan LKPD Terhadap Kemampuan Pemecahan Masalah Fisika. *Jurnal Pendidikan Fisika Dan Teknologi*, 3(1), 14–23.
- Kelley, T. R., & Knowles, J. G. (2016). A conceptual framework for integrated STEM education. *International Journal of STEM Education*, 3(1).
- Kola, A. J. (2017). Investigating the Conceptual Understanding of Physics through an Interactive Lecture-Engagement. *Cumhuriyet International Journal of Education-CIJE*, 6(1), 82–96.
- Konicek, R., & Keeley, P. (2015). Teaching for Conceptual Understanding in Science. *National Science Teachers Association*.
- Kurniawati, I. D., & Nita, S.-. (2018). Media Pembelajaran Berbasis Multimedia Interaktif Untuk Meningkatkan Pemahaman Konsep Mahasiswa. *Journal of Computer and Information Technology*, 1(2), 68.
- Laachir, A. dalam. (2019). The Implementation of Collaborative Learning via Virtual Communities in Moroccan Higher Education. *International Journal of Language and Literary Studies*, 1(2), 60–73.
- Laal, M., & Ghodsi, S. M. (2012). *Benefits of collaborative learning* (pp. 486 – 490). Procedia - Social and Behavioral Sciences.
- Lindsey, B. A., Stetzer, M. R., & Speirs, J. C. (2023). Investigating student ability to follow reasoning chains : The role of conceptual understanding. *Physical Review Physics Education Research*, 19(1), 10128. <https://doi.org/10.1103/PhysRevPhysEducRes.19.010128>
- Mutmainah, S., Anwar, K., & Mahfuzh, T. W. (2021). Dinamika Evaluasi Pembelajaran Daring Hubungannya Dengan Teori Behavioristik. *Palangka Raya International and National Conference on Islamic Studies*, 1, 227–236.
- Napitupulu, C. A., Ananda, K., Praticia, R., & Rahmadini, V. W. (2020). Implementasi Pembelajaran Kolaboratif Daring (Online Collaborative Learning) Dalam rangka Pembentukan Dukungan Sosial Mahasiswa Pg Paud Fkip Universitas Palangka Raya. *Jurnal Pendidikan Dan Psikologi Pintar Harati*, 16.
- Nashiroh, P. K., Ekarini, F., & Ristanto, R. D. (2020). Efektivitas Penerapan Model Pembelajaran Kooperatif Tipe Jigsaw Berbantuan Mind Map terhadap Kemampuan Pedagogik Mahasiswa Mata Kuliah Pengembangan Program Diklat. *Jurnal Pendidikan Teknologi Dan Kejuruan*, 17(1), 43.
- Ni'amah, K., & S.M, H. (2021). Teori pembelajaran kognitivistik dan aplikasinya dalam pendidikan islam 1. *Jurnal Ilmiah Mahasiswa*, 204–217.

- Olimovna, M. G. (2023). *The role of digital educational technologies in teaching physics*. 2(4), 211–216.
- Ortiz, B. B., Pozo-Sánchez, S., Jiménez, C. R., & Navas-Parejo, M. R. (2022). Aprendizaje Cooperativo. *Investigación Educativa En Contextos de Pandemia*, 21, 69–76.
- Pangesti, K. I., Yulianti, D., & Sugianto. (2017). Bahan Ajar Berbasis STEM (Science, Technology, Engineering, and Mathematics) untuk Meningkatkan Penguasaan Konsep Siswa SMA. *Unnes Physics Education Journal*, 6(3), 1–6.
- Pratama, R. A., & Saregar, A. (2019). Pengembangan Lembar Kerja Peserta Didik (LKPD) Berbasis Scaffolding Untuk Melatih Pemahaman Konsep. *Indonesian Journal of Science and Mathematics Education*, 2(1), 84–97.
- Prisuna, B. F. (2021). Pengaruh Penggunaan Aplikasi Google Meet terhadap Hasil Belajar. *Jurnal Penelitian Ilmu Pendidikan*, 14(2), 45–49.
- Rahdiyanta, D., Hargiyarto, P., & Asnawi, A. (2017). Characters-based collaborative learning model: Its impacts on students' attitude and achievement. *Jurnal Pendidikan Teknologi Dan Kejuruan*, 23(3), 227–234.
- Rahmat, F. L. A., Suwatno, & Rasto. (2018). Meningkatkan Pemahaman Konsep Siswa Melalui Teams Games Tournament (Tgt): Meta Analisis. *Jurnal MANAJERIAL*, 17(2), 239.
- Romli, S., Abdurrahman, A., & Riyadi, B. (2018). Designing students' worksheet based on open-ended approach to foster students' creative thinking skills. *Journal of Physics: Conference Series*, 948(1).
- Rusdi, M. (2019). *Penelitian Desain dan Pengembangan Kependidikan : Konsep, Prosedur dan Sintesis Pengetahuan Baru* (1st ed.). PT Raja Grafindo Persada.
- Sabella, M. S. (1999). Using the context of physics problem-solving to evaluate the coherence of student knowledge. In *Teacher*. College Park ProQuest.
- Sagala, R., Umam, R., Thahir, A., Saregar, A., & Wardani, I. (2019). The effectiveness of stem-based on gender differences: The impact of physics concept understanding. *European Journal of Educational Research*, 8(3), 753–761.
- Sari, Y. S., Selisne, M., & Ramli, R. (2019). Role of students worksheet in STEM approach to achieve competence of physics learning. *Journal of Physics: Conference Series*, 1185(1).
- Serway, R. A. (2014). *Fisika untuk sains dan teknik buku 1*. Salemba Teknika.
- Shen, J., Liu, O. L., & Chang, H. Y. (2017). Assessing Students' Deep Conceptual Understanding in Physical Sciences: an Example on Sinking and Floating. *International Journal of Science and Mathematics Education*, 15(1), 57–70.

<https://doi.org/10.1007/s10763-015-9680-z>

- Suparlan. (2019). Teori konstruktivisme dalam pembelajaran. *Jurnal Keislaman Dan Ilmu Pendidikan*, 1, 79–88.
- Umbaryati. (2016). Pentingnya LKPD pada Pendekatan Scientific Pembelajaran Matematika. *Prosiding Seminar Nasional Matematika*, 1(9), 217–225.
- Utami, R., Djudin, T., & Arsyid, S. B. (2014). Remediasi Miskonsepsi Pada Fluida Statis Melalui Model Pembelajaran TGT Berbantuan Mind Mapping Di Sma. *Jurnal Pendidikan Dan Pembelajaran*, 1–12.
- Widiyatmoko, A. (2018). The Effectiveness of Simulation in Science Learning on Conceptual Understanding : A Literature Review. *Journal of International Development and Cooperation*, 24(1&2), 35–43.
- Yin, Y., Tomita, M. K., & Shavelson, R. J. (2008). Diagnosing and Dealing with Student Misconceptions: Floating and Sinking. *Science Scope*, 31(8), 34–39.
- Zainuddin, Z., Syukri, M., Prayogi, S., & Luthfia, S. (2022). Implementation of Engineering Everywhere in Physics LKPD Based on STEM Approach to Improve Science Process Skills. *Jurnal Pendidikan Sains Indonesia*, 10(2), 231–239.
- Zhang, X., Meng, Y., Pablos, P. O. de, & Sun, Y. (2019). Learning analytics in collaborative learning supported by Slack: From the perspective of engagement. *Computers in Human Behavior*, 92, 625–633.
- Zisca Diana, P. (2020). Collaborative Learning Dalam Pembelajaran Bahasa Indonesia. *Eprints.Uad.Ac.Id*, 102.