REFERENCES

- Al-Said, K., et al. (2024). The impact of video-based virtual reality training on critical thinking and cognitive load. *International Journal of Evaluation and Research in Education (IJERE)*, 13(5), 3239. https://doi.org/10.11591/ijere.v13i5.28109
- Aspden, T., Egan, J. P., Bye, L., & Petersen, L. (2021). Using Visual Thinking Strategies to Support Development of Pharmacy Student Competency in Person-Centered Care.

 *American Journal of Pharmaceutical Education, 86(3), 8607. https://doi.org/10.5688/ajpe8607
- Balcetis, E., & Dunning, D. (2007). Cognitive Dissonance and the Perception of Natural Environments. *Psychological Science*, 18(10), 917–921.
- Braun, V., & Clarke, V. (2006). Using thematic analysis in psychology. *Qualitative Research in Psychology*, 3(2), 77–101.
- Coe, J., & Fooladi, E. C. (2025). Multisensory experiences with and of food: Representing taste visually and verbally during food ateliers in a Reggio Emilia perspective.

 *Cambridge Journal of Education, 55(3), 377–399. https://doi.org/10.1080/0305764X.2025.2459924
- Connors, C., & Piro, J. S. (2024). Visual Thinking Strategies as humanistic education: A qualitative study of teachers using VTS. *International Journal of Changes in Education [Preprint]*. https://doi.org/10.47852/bonviewijce42022990
- Cottrell, S. (2023). Critical Thinking Skills: Effective Analysis, Argument and Reflection (4th ed.). Bloomsbury Academic.
- Creswell, J. W. (2014). Research design: Qualitative, quantitative, and mixed methods approaches (4th ed.). Thousand Oaks, CA: Sage.
- Creswell, J. W., & Creswell, J. D. (2023). Research Design: Qualitative, Quantitative and Mixed Methods Approaches. Sage Publications Ltd.
- Ennis, R. H. (1985). The Logical Basis for Measuring CT Skills. Educational Leadership, 43, 44-48.

- Ermarwati, N. (2020). The Analysis of Students' Perceptions on the Efficient Applications
 Used in Online Learning in the Midst of COVID-19 Pandemic. *UIN Salatiga Repository*.

 http://e-repository.perpus.uinsalatiga.ac.id/10061/1/SKRIPSI%20ERMA.pdf
- Facione, P. (1990). Critical Thinking: A Statement of Expert Consensus for Purposes of Educational Assessment and Instruction, Research Findings and Recommendations.

 American Philosophical Association.
- Fredricks, J. A., Blumenfeld, P. C., & Paris, A. H. (2004). School Engagement: Potential of the Concept, State of the Evidence. *Review of Educational Research*, 74(1), 59–109. https://doi.org/10.3102/00346543074001059
- Garcia-Ruiz, M. A., Kapralos, B., & Rebolledo-Mendez, G. (2021). An overview of olfactory displays in education and training. *Multimodal Technologies and Interaction*, 5(10), 64. https://doi.org/10.3390/mti5100064
- Gibson, J. J. (1966). The senses considered as perceptual systems. Boston: Houghton Mifflin.
- Goldstein, E. B. (2010). Sensation and Perception (8th ed.). Belmont, CA: Wadsworth Cengage Learning.
- Gummerman, K. (1973). A model of selective perception: The effect of presenting alternatives before or after the stimulus. *Bull. Psychon. Soc.*, 2, 365–367. https://doi.org/10.3758/BF03334413
- Halimatussa'diah, & Mustadi, A. (2019). Application of Visual Thinking Technique to Improve Students' Critical Thinking Skills. *KnE Social Sciences*, 3(10), 62–70. https://doi.org/10.18502/kss.v3i10.3888
- Halpern, D. F. (1988). *Thought and knowledge: An introduction to critical thinking* (1st ed.). Hillsdale, NJ: Lawrence Erlbaum Associates.
- Heinricks, J. R., & Kleiner, B. H. (1995). How to improve our perceptual skills and awareness. *International Journal of Continuing Engineering Education and Life-Long Learning*, 5(1/2), 73–82. https://doi.org/10.1504/ijceell.1995.030250
- Housen, A. C. (2002). Aesthetic Thought, Critical Thinking and Transfer. *Arts and Learning Research Journal*, 18(1), 99–132.

- Irwan, Arnadi, & Aslan, A. (2024). Developing Critical Thinking Skills of Primary School Students Through Independent Curriculum Learning. *Indonesian Journal of Education* (INJOE), 4(3), 788–803. https://injoe.org/index.php/INJOE/article/view/138
- Ismail, E. A., & Groccia, J. E. (2018). Students Engaged in Learning. *New Directions for Teaching and Learning*, 2018(154), 45–54. https://doi.org/10.1002/tl.20290
- Keogh, F. M., Lee, A., & Gibbon, F. (2020). Visual Thinking Strategies: Experiences of an arts-based curriculum in an Irish University Medicine and Health Faculty. *All Ireland Journal of Teaching and Learning in Higher Education (AISHE-J)*, 12(1), 1–24. https://ojs.aishe.org/index.php/aishe-j/article/view/408
- Khalil, N. E. R. (2024). The Effect of Visual Thinking Strategies on Iraqi EFL Students' Communication Skills. *Journal of College of Education for Women*, 35(3), 24–42. https://doi.org/10.36231/coedw.v35i3.1750
- Lastari, D. S., & Silvana, R. (2020). The Effects of Summarizing Using Infographics on EFL Learners' Reading Comprehension. *Globish: An English-Indonesian Journal for English Education and Culture*, 9(2), 128. https://doi.org/10.31000/globish.v9i2.2707
- Lipman, M. (1988). Critical thinking—What can it be? Educational Leadership, 46(1), 38–43.
- Lozano, D. P. (2024). Unveiling Critical Thinking: Instructional Strategies to Enhance Argumentation. *IntechOpen*. https://doi.org/10.5772/intechopen.114878
- McPeck, J. E. (1990). Critical thinking and subject specificity: A reply to Ennis. *Educational Researcher*, 19(4), 10–12. https://doi.org/10.3102/0013189X019004010
- Miriam Cents-Boonstra, Lichtwarck-Aschoff, A., Denessen, E., Aelterman, N., & Haerens, L. (2021). Fostering student engagement with motivating teaching: an observation study of teacher and student behaviours. *Research Papers in Education*, 36(6), 754–779. https://doi.org/10.1080/02671522.2020.1767184
- Mohamed, H. I. (2021). The Effect Of The Infographic Strategy On The Achievement And Development Of Visual Thinking Among The Second-Year Intermediate Students In The Social Subject. *Psychology and Education Journal*, 58(2), 1261–1274. https://doi.org/10.17762/pae.v58i2.2270

- Moore, A. (2012). *Teaching and Learning: Pedagogy, Curriculum and Culture* (2nd ed.). Oxon: Routledge. https://doi.org/10.4324/9780203134061
- Nelson, P., Ysseldyke, J., & Christ, T. (2015). Student Perceptions of the Classroom Environment: Actionable Feedback to Guide Core Instruction. *Assessment for Effective Intervention*, 41. https://doi.org/10.1177/1534508415581366
- Nolan, S. (2023). Visual Thinking Strategies as a pedagogical tool: Initial expectations, applications, and perspectives in Denmark. *Journal of Visual Literacy*, 42(3), 210–227. https://doi.org/10.1080/1051144x.2023.2261222
- Păduraru, M.-E., Rihițeanu-Năstase, E.-R., & Stăiculescu, C. (2023). Students' Perceptions Of Feedback In Higher Education. *European Proceedings of Educational Sciences*, 5, 347–356. https://doi.org/10.15405/epes.23045.36
- Parveen, Akthar & Husain, Naushad. (2021). INFOGRAPHICS AS A PROMISING TOOL FOR TEACHING AND LEARNING.
- Pasha, N. A., Aisyah, S., Damayanti, R. V., & Surono. (2024). Indonesian Graduate Students' Challenges in Understanding English Journal Articles. *PROJECT (Professional Journal of English Education)*, 7(1).
- Paul, R. (1992). Critical thinking: What, why, and how. New Directions for Community Colleges, 1992(77), 3–24. https://doi.org/10.1002/cc.36819927703
- Pekrun, R. (2006). The Control-Value Theory of Achievement Emotions: Assumptions, Corollaries, and Implications for Educational Research and Practice. *Educational Psychology Review*, 18, 315–341. http://dx.doi.org/10.1007/s10648-006-9029-9
- Persson, P. B., Hillmeister, P., & Persson, A. B. (2022). Perception. *Acta Physiologica*, 235(3). https://doi.org/10.1111/apha.13842
- Pintrich, P. R., & De Groot, E. V. (1990). Motivational and self-regulated learning components of classroom academic performance. *Journal of Educational Psychology*, 82(1), 33–40. https://doi.org/10.1037/0022-0663.82.1.33
- Shenoy, P., & Kumar, T. (2024). A human-centred tactile perception device for enhanced learning. *Procedia CIRP*, 128, 43–48. https://doi.org/10.1016/j.procir.2024.06.005

- Smiciklas, M. (2012). The power of infographics: Using pictures to communicate and connect with your audiences. Pearson Education/Que.
- Thomson, V., & Yedidi, M. R. (2020). A practical approach to critical thinking among EFL learners. *International Journal of Technology Transfer and Commercialisation*, 17(1), 43. https://doi.org/10.1504/ijttc.2020.106560
- Todorovska, R. (2024). Critical thinking in the language classroom an important 21st century skill. 5(1), 39–48. https://doi.org/10.69648/bfsi1617
- Trowler, V. (2010). Student Engagement Literature Review, 11, 1–15.
- Vereijken, M. W. C., van der Rijst, R. M., van Driel, J. H., & Dekker, F. W. (2017). Student learning outcomes, perceptions and beliefs in the context of strengthening research integration into the first year of medical school. *Advances in Health Sciences Education*, 23(2), 371–385. https://doi.org/10.1007/s10459-017-9803-0
- Willingham, D. T. (2007). Critical thinking: Why is it so hard to teach? *American Educator*, 31(2), 8–19. https://www.aft.org/ae/summer2007/willingham
- Yan, Z. (2021). English as a Foreign Language Teachers' Critical Thinking Ability and L2
 Students' Classroom Engagement. Frontiers in Psychology, 12.
 https://doi.org/10.3389/fpsyg.2021.773138
- Yenawine, P. (2020). Understanding Visual Literacy: The Visual Thinking Strategies Approach.

 https://www.philipyenawine.com/teaching/2020/8/23/understanding-visual-literacy-the-visual-thinking-strategies-approach
- Yenawine, P., & Miller, A. (2014). Visual thinking, images, and learning in college. *About Campus:*Enriching the Student Learning Experience, 19(4), 2–8.
 https://doi.org/10.1002/abc.21162