

REFERENCES

- Abubakar, R.B., & Oguguo, O.D. (2011). Age and Gender as Predictors of Academic Achievement of College Mathematics and Science Students. *Journal Plus Education/Educatia Plus*, 8(1).
- Ahmadi, S (2011). Relationship between Critical Thinking and Self-Efficacy with Academic Performance of Students in Middle School in Science Class. *Journal of Shahed University XV* (33).
- Arends, R. I. (2008). *Learning to Teach: (Terjemahan Helly Prajitno S. dan Sri MS)*. Yogyakarta: Pustaka Belajar.
- Arikunto, S. (2010). *Dasar- Dasar Evaluasi Pendidikan*. Jakarta: PT Bumi Aksara.
- Bagheri, F., & Ghanizadeh, A. (2016). Critical Thinking and Gender Differences in Academic Self-regulation in Higher Education. *Journal of Applied Linguistics and Language Research*, 3(3), 133-145.
- Baird, D. (1997). Is the Physics Classroom any Place for Girls? The Gender Imbalance in Physics Education: How It Came About and What Teachers Can Do About It. *A paper Presented to the Faculty of National University in Partial Fulfillment of the Requirements for the Degree of Master of Science in Instructional Leadership with an Emphasis in Curriculum and Instruction*.
- Bhattacharjee, P. K. (2010). Global Warming Impact on the Earth. *International Journal of Environmental Science and Development*, 1(3), 219-220.
- Bitner, B. L. (1991). Formal Operational Reasoning Modes: Predictors of Critical Thinking Abilities and Grades Assigned by Teachers in Science and Mathematics for Students in Grades Nine through Twelve. *Journal of Research in Science Teaching*, 28(3), 265-274.
- Bodmann, S. M. and Robinson, D. H. (2004). Speed and Performance Differences among Computer-Based and Paper-Pencil Tests. *Journal of Educational Computing Research*, 31(1), 51 – 60.
- Bozkurt, I. (2010). Energy Resources and Their Effects on Environment. *WSEAS Transactions on Environment and Development*, 6(5), 327-334.
- BSNP. (2006). *Panduan Penyusunan Kurikulum Tingkat Satuan Pendidikan Jenjang Pendidikan Dasar dan Menengah*. Jakarta: BSNP

Nur Ida Maulida, 2016

The Profile of Students' Critical Thinking Skill Measured by Science Virtual Test on Living Things and Environmental Sustainability Theme

Universitas Pendidikan Indonesia | repository.upi.edu | perpustakaan.upi.edu

- Branch, B.J. (2000). *The Relationship among Critical thinking, Clinical Decision Making, and Clinical Practice: A comparative Study*. (PhD Thesis). University of Idaho. [Online]. Retrieved from wjn.sagepub.com. [Accessed on June, 14th 2016].
- Caramani, D. (2008). *Introduction to the Comparative Method with Boolean Algebra* (Vol. 158). Sage publications. [Online]. Retrieved from corwin.com. [Accessed on July, 12th 2016].
- Carmichael, E., Craigie, D., Driscoll, K., Farrell, H., James, B., and Scoufis, M. (1998). *Critical Analysis – What is it? 2nd edition*. University of Western Sydney Nepean: Kingswood, Sydney.
- Carroll, R.T. (2007). *Teaching Critical Thinking*. [Online]. Retrieved from <http://www.skeptdic.com/essays1>. [Accessed on November 4th, 2015].
- Conole, G., & Warburton, B. (2005). A Review of Computer Assisted Assessment. *ALT-J, Research in Learning Technology*, 13(1), 17-31.
- Daly, H. E. (2002). Toward Some Operational Principles of Sustainable Development. *Ecological economics*, 2(1), 1-6.
- Debbage, K. G., and Kidd, J. F. (2011). Renewable Energy in North Carolina: The Potential Supply Chain and Connections to Existing Renewable and Energy Efficiency Firms. *Southeastern geographer*, 51(1), 69-88.
- Dow, B.J., & Wood, J.T. (2006). *The Sage Handbook of Gender and Communication*. Thousand Oaks, CA: Sage.
- Elder, L. (2007). *Why Critical Thinking?* [Online]. Retrieved from <http://www.criticalthinking.org/>. [Accessed on November 4, 2015].
- Farrar, A. (2008). *Global Warming*. Minnesota: ABDO Publishing Company.
- Ferraris, V., Bosco, F., Cafiero, G., D'Angelo, Elena and Suloyeva, Y. (2013). *Defining Profiling* [Online]. Retrieved from <http://dx.doi.org/>. [Accessed on June 20th, 2016]
- Firman, H., and, Rusyati, L. (2015). Development of Science Virtual Test as Student Centered Software to Measure Student' Critical Thinking Skill. *Unpublished Research Report*.
- Garnett, P. J., Tobin, K. G., & Swingler, D. G. (1985). Reasoning Abilities of Secondary School Students aged 13- 16 and Implication for the Teaching Science. *European Journal of Science Education* 7, 387-397.

Nur Ida Maulida, 2016

The Profile of Students' Critical Thinking Skill Measured by Science Virtual Test on Living Things and Environmental Sustainability Theme

Universitas Pendidikan Indonesia | repository.upi.edu | perpustakaan.upi.edu

- Ghadi, I. N., Bakar, K. A., Alwi, N. H., & Talib, O. (2012). Gender Analysis of Critical Thinking Disposition Instrument among University Putra, Malaysia Undergraduate Students. *Recent Technological Advances in Education*.
- Gedik, H. (2013). Social Studies Teacher Candidates' Critical Thinking Skills. *Procedia-Social and Behavioral Sciences*, 93, 1020-1024.
- Gezer, N., Kantek, F., & Öztürk, N. (2010). Profile and Critical Thinking Levels of Nursing Students in a Health School. *Procedia-Social and Behavioral Sciences*, 9, 2057-2061.
- Habibollah, N., Rohani, A., Aizan, H.T., Janaluddin, S. & Kumar, S. (2009). Creativity, Age and Gender as Predictors of Academic Achievement among Undergraduate Students. *Journal of American Science* 2009; 5(5):101-112.
- Halpern, D. F. (2003). The "How" and "Why" of Critical Thinking Assessment. *Critical thinking and reasoning: Current research, theory, and practice*, 355-366.
- Halpern, D. F. (1998). Teaching Critical Thinking for Transfer across Domains. Dispositions, Skills, Structure Training, and Metacognitive Monitoring. *The American psychologist*, 53(4), 449-455.
- Halpern, D.F. (1993). Assessing the Effectiveness of Critical Thinking Instruction. *The Journal of General Education*, 42(4), 338-353.
- Halpern, D., Benbow, C., Geary, D., Gur, R., Hyde, J., & Gernsbacher, M. (2007). The Science of Sex Differences in Science and Mathematics. *Psychological Science in the Public Interest*, Vol. 8, No. 1, pages 1-51.
- Hambleton, R.K. & Rogers, H.J. (1991). Advances in Criterion-Referenced Measurement in R. Hambleton & J. Zaal (eds.) *Advances in educational and psychological testing*. Boston: Kluwer Academic Publishers.
- Inch, E.S. (2006). *Critical Thinking & Communication. The Use of Reason in Argument*. United States of America: Pearson Education.
- Incikabi, L., Tuna, A., & Biber, A. C. (2013). An Analysis of Mathematics Teacher Candidates' Critical Thinking Dispositions and Their Logical Thinking Skills. *Journal of International Education Research*, 9(3), 257
- Jacob, L. C and Chase, C. L. (1992). *Development and Using Test Effectively*. San Francisco. Jossey-Bass Publishers.

- Jamil, M., Tariq, R. H., Shami, P. A., & Zakariys, B. (2012). Computer-Based vs Paper-Based Examinations: Perceptions of University Teachers. *TOJET: The Turkish Online Journal of Educational Technology*, 11(4).
- Kamaei, A., & Weisani, M. (2013). The Relationship between Achievement Motivation, Critical Thinking and Creative Thinking with Academic Performance. *Indian Journal of Fundamental and Applied Life Sciences*, 3(4), 121-7.
- Karagöl, İ., & Bekmezci, S. (2015). Investigating Academic Achievements and Critical Thinking Dispositions of Teacher Candidates. *Journal of Education and Training Studies*, 3(4), 86-92.
- Kaplan, R., and Saccuzzo, D. (2012). *Psychological Testing: Principles, Applications, and Issues*. Ohio: Cengage Learning.
- Karplus, R. (1977). Science Teaching and the Development of Reasoning. *Journal of Research in Science Teaching*, 14(2), 169-175.
- Kent, M. (2000). *The Advance Biology*. New York: Oxford University Press
- Leach, B. T. (2011). *Critical Thinking Skills as Related to University Students Gender and Academic Discipline*. (Electronic Thesis and Dissertations). East Tennessee State University. [Online]. Retrieved from <http://www.etsu.edu>. [Accessed on November 3, 2015].
- Lewis, A. & Smith, D. (1993). Defining Higher Order Thinking. *Journal Theory and Practice*. 32 (3):215-220.
- Loes, C., Pascarella, E., & Umbach, P. (2012). Effects of Diversity Experiences on Critical Thinking Skills: Who Benefits? *The Journal of Higher Education*, 83(1), 1-25
- Mar, M. M., & Kyaw, P. S. W. (2015). An Exploratory Study of Formal Reasoning Abilities of Grade 10 Students and Mathematics Achievement. *Education Research Journal 2015, Vol. 5, No. 1*.
- McMillan, J.H., and Schumacher, A. (2001). *Research in Education*. New York: Addison, Wesley Longman
- Mitreviski, B., & Zajkov, O. (2012). Physics Lab, Critical Thinking and Gender Differences. *Macedonian Physics Teacher*, 48, 13-18
- Molles, M, C. (2013). *Ecology: Concept and Application*. New York: McGraw-Hill Education.

Nur Ida Maulida, 2016

The Profile of Students' Critical Thinking Skill Measured by Science Virtual Test on Living Things and Environmental Sustainability Theme

Universitas Pendidikan Indonesia | repository.upi.edu | perpustakaan.upi.edu

- Moses, A., & Daniel, O. (2008). Gender Difference in Integrated Science Achievement among Pre Service Teachers in Nigeria. *Educational Research and Review* Vol. 3 (7), pp. 242-245.
- Nasrabadi BH, Mousavi K and Farsan Zabihullah S (2012). Attitude of Critical Thinking and Cognitive Learning Styles in Predicting Academic Achievement of University Students. *Iranian Journal of Medical Education XII(4)*.
- Nezami, N. R., Asgari, M., & Dinarvand, H. (2013). The Effect of Cooperative Learning on the Critical Thinking of High School Students. *Technical Journal of Engineering and Applied Sciences*.
- Nickerson, R. (1988). On Improving Thinking Through Instruction. *Review of Research in Education*, 15(3), 3-57
- Norris, S. P. & Ennis, R.H. (1989). *Evaluating Critical Thinking*. Pacific Grove, CA: Midwest Publications.
- Osman, K., Halim, L., and Ikhsan, Z. H. (2003). The Critical Thinking Attitudinal Profile of Some Malaysian Secondary Students: A Reflection of Scientific Attitudes. *Journal of Science and Mathematics Education in Southeast Asia*, 26(2), 143-166.
- Paul, R. (1993). *Critical thinking: What Every Person Needs to Survive in a Rapidly Changing World*. Santa Rosa, CA: Foundation for Critical Thinking.
- Paul, R., and Elder, L. (2012). *The Thinker's Guide to Scientific Thinking: Based on Critical Thinking Concepts and Principle*. Santa Rosa, CA: Foundation for Critical Thinking. [Online]. Retrieved from <http://www.criticalthinking.org/>. [Accessed on November 4, 2015]
- Paul, R., and Elder, L. (2010). *Critical Thinking Development: A Stage Theory*. Santa Rosa, CA: Foundation for Critical Thinking. [Online]. Retrieved from <http://www.criticalthinking.org/>. [Accessed on November 4, 2015]
- Paul, R., and Elder, L. (2008). *The Miniature Guide to Critical Thinking; Concept and Tools*. Santa Rosa, CA: Foundation for Critical Thinking. [Online]. Retrieved from <http://www.criticalthinking.org/>. [Accessed on November 4, 2015].
- Paul, R., and Elder, L. (2007). *A Critical Thinker's Guide to Educational Fads*. Santa Rosa, CA: Foundation for Critical Thinking. [Online]. Retrieved from <http://www.criticalthinking.org/>. [Accessed on November 4, 2015]

Nur Ida Maulida, 2016

The Profile of Students' Critical Thinking Skill Measured by Science Virtual Test on Living Things and Environmental Sustainability Theme

Universitas Pendidikan Indonesia | repository.upi.edu | perpustakaan.upi.edu

- Paul, R., and Elder, L. (2004). *The Nature and Functions of Critical and Creative Thinking*. Santa Rosa, CA: Foundation for Critical Thinking. [Online]. Retrieved from <http://www.criticalthinking.org/>. [Accessed on November 4, 2015].
- Paul, R., and Elder, L. (1999). *A Foundation for the Logic of Teaching: Content is Thinking, Thinking is Content*. Santa Rosa, CA: Foundation for Critical Thinking. [Online]. Retrieved from <http://www.criticalthinking.org/>. [Accessed on July 4, 2016].
- Pellegrino, J. W., Chudowsky, N., & Glaser, R. (Eds.). (2001). *Knowing What Students Know: The Science and Design of Educational Assessment*. National Academies Press.
- Piawa, C. Y. (2010). Building a Test to Assess Creative and Critical Thinking Simultaneously. *Procedia-Social and Behavioral Sciences*, 2(2), 551-559.
- Pollock, S. J., Finkelstein, N. D., & Kost, L. E. (2007). Reducing the Gender Gap in the Physics Classroom: How Sufficient is Interactive Engagement? *Physical Review Special Topics - Physics Education*.
- Ramos, J. L. S., Dolipas, B. B., & Villamor, B. B. (2013). Higher order thinking skills and academic performance in physics of college students: A regression analysis. *International Journal of Innovative Interdisciplinary Research*, 1(4), 48-60.
- Rasiman. (2015). Leveling of Students' Critical Ability in Solving Mathematics Problem Based on Gender Difference. *International Journal of Education and Research*, 3(4).
- Rehmani, A. (2003). *Impact of Public Examination System on Teaching and Learning in Pakistan*. [Online]. Retrieved from <http://www.aku.edu/>. [Accessed on November 4, 2015]
- Rodriguez, M. (2005). Three Options are Optimal for Multiple Choice Items: A Meta-analysis of 80 Years of Research. *Educational Measurement: Issues and Practice*, 24(2), 3-13.
- Saingan, R. (2008). Demonstration Strategy and Achievement of Physics Students based on Higher Order Thinking Skills. *Graduate School Journal*, Vol.14, 129 - 135.
- Shafi, S. M. (2005). *Environmental Pollution*. New Delhi: Atlantic publishers.
- Sharma, D. L. D. (2013). A Study of Critical Thinking of Students of Secondary Schools. *Research in Education*, 2(10).

Nur Ida Maulida, 2016

The Profile of Students' Critical Thinking Skill Measured by Science Virtual Test on Living Things and Environmental Sustainability Theme

Universitas Pendidikan Indonesia | repository.upi.edu | perpustakaan.upi.edu

- Simon (2011), *Dissertation and Scholarly Research: Recipes for Success*. Seattle, WA: Dissertation Success LLC. [Online]. Retrieved from www.dissertationrecipes.com. [Accessed on July, 12th 2016].
- Sims, R.N. Schock, A. Adegbululgbé, J. Fenhann, I. Konstantinaviciute, W. Moomaw, H.B. Nimir, B. Schlamadinger, J. Torres-Martínez, C. Turner, Y. Uchiyama, S.J.V. Vuori, N. Wamukonya, X. Zhang. (2007). *Energy supply*. New York: Cambridge University Press.
- Sireci, S., and Luecht, R. M. (2012). *A Review of Models for Computer-Based Testing*. [Online]. Retrieved from <https://research.collegeboard.org>. [Accessed on November 4, 2015].
- Taghva, F., Rezaei, N., Ghaderi, J., & Taghva, R. (2014). Studying the Relationship between Critical Thinking Skills and Students' Educational Achievement (Eghlid Universities as Case Study). *International Letters of Social and Humanistic Sciences (ILSHS)*, 14, 18-25.
- Tayao, J. (2014). An Assessment on the Level of Critical Thinking Skills of BSIT Students at CEU-Malolos in Relation to their Computer Programming and Mathematics Academic Performance. *European Academic Research*, 2(3), 1-16.
- Teddle, C., & Yu, F. (2007). Mixed Methods Sampling a Typology with Examples. *Journal of mixed methods research*, 1(1), 77-100.
- Thompson, C. (2011). Critical Thinking Across the Curriculum: Process over output. *International Journal of Humanities and social science*, 1(9), 1-7.
- Tiruneh, D. T., Verburgh, A., & Elen, J. (2014). Effectiveness of Critical Thinking Instruction in Higher Education: A Systematic Review of Intervention Studies. *Higher Education Studies*, 4(1), 1.
- Tobin, K. G. & Capie, W. (1982). Relationships between Classroom Process Variables and Middle School Achievement. *Journal of Educational Psychology* 74. 441-454.
- Uysal, O. and Kuzu, A. (2009). A Thesis Proposal: Quality Standards of Online Higher Education in Turkey. Internationalization and the Role of University Networks. *Proceedings of the 2009 EMUNI Conference on Higher Education and Research, Potorož, Slovenia, 25 – 26 September*.
- Valanides, N. (1997). Formal Reasoning Abilities and School Achievement. *Studies in Educational Evaluation* 23. 169-185.

Nur Ida Maulida, 2016

The Profile of Students' Critical Thinking Skill Measured by Science Virtual Test on Living Things and Environmental Sustainability Theme

Universitas Pendidikan Indonesia | repository.upi.edu | perpustakaan.upi.edu

- Valanides, N. (1998). Formal Operational Performance and Achievement of Lower Secondary School Students. *Studies in Educational Evaluation* 24. 1-23.
- Wal, A. V. D. (1999). Critical thinking as a core skill: issues and discussion paper. *Cornerstones: what do we value in higher education? Proceedings from Higher Education Research & Development Society of Australasia, 1-11.*
- Whittington, D., Bull, J., and Danson M. (2000). Web-Based Assessment: Two UK Initiatives. *The Sixth Australian World Wide Web Conference, Rihga Colonial Club Resort, Cairns, 12-17 June 2000, Australia.*
- WWF (1991). *Caring for the Earth: A Strategy for Sustainable Living*. Gland, Switzerland. [Online]. Retrieved from <https://portals.iucn.org/>. [Accessed on November 20, 2015].
- Yücel, A., & Koçak, C. (2010). Determining the Critical Thinking Levels of Student Teachers and Evaluating Through Some Variables. *International Online Journal of Educational Sciences*, 2 (3), 865-882.