

COMPARISON OF STUDENTS AT ECO-SCHOOLS, ECO-SCHOOLS WITH GREEN FLAG AND ORDINARY PRIMARY SCHOOLS IN TERMS OF ENVIRONMENTAL LITERACY

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INTRODUCTION

Environmental education is described as giving all the individuals of society information about environment, raising awareness about environmental issues, creating permanent changes in behaviour, and making individuals get an active role in problem solving process (Özey, 2013). Environmental education has become inevitably necessary in all societies because of the disruption of balance in nature. In addition to this, wellbeing of human must be considered together with wellbeing of environment. Besides, environmental problems sooner or later will reach the capacity that threatens human life. For these reasons, educational system should bring up new generations who not only have a feeling of responsibility towards environment, but also try to create solutions, and practise what they learn and take action (Er, 2015).

Environmental education is a learning process that increases people's knowledge and awareness about the environment and associated challenges, develops the necessary skills and expertise to address the challenges, and fosters attitudes, motivations, and commitments to make informed decisions and take responsible action (UNESCO, Tbilisi Declaration, 1978). Environmentalists are trying to find solutions for a better life. In order to achieve that, teaching about environment issues and the preservation of the world's environment has become increasingly

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our era, more and more importance should be given to such similar environmental education-based schools, which educate individuals with high environmental awareness.

REFERENCES

- Aktepe, S. (2005). *İlköğretim okullarında çevre eğitimi (Eko-okulların ve diğer okulların karşılaştırılması)* [Environmental Education in Primary Schools (Comparison of Eco-schools and Ordinary Schools)]. MSc. thesis. Ankara: Gazi University Institute of Educational Sciences.
- Aktepe, S., & Girgin, S. (2009). Comparison of Eco-Schools and Other Primary Schools in terms of Environmental Education. *Elementary Education Online*, 8(2), 401-414 (in Turkish with English summary). [Online]: <http://ilkogretim-online.org.tr>
- Athman, J. A. (2003). *The effects of environment-based education on students' critical thinking and achievement motivation*. Thesis for the degree of Doctor of philosophy, University of Florida, United States.
- Atılboz, N. G. (2001). *Lise birinci sınıf öğrencilerinde hücre ve moleküler biyoloji konuları ile ilgili görsel ve deneysel malzeme kullanmanın başarı üzerine etkisi*. [The Effect of Visual and Experimental Materials related to Cell and Molecular Biology courses in achievement of 9 th grade students]. MSc thesis. Ankara: Gazi University Institute of Educational Sciences.
- Batak, B. (2011). Yeşil bayraklı eko-okullarla normal eko-okulların çevreye yönelik bilinç düzeylerinin karşılaştırılması. Yüksek Lisans Tezi, Gazi Üniversitesi Eğitim Bilimleri Enstitüsü, Ankara.
- Carlsson, M., & Sanders, D. (2004). Perspectives on participation in collaborative projects between schools and external actors. *AERA Meeting*. San Diego.
- Er, F. (2015). *Eko-Okullar İle Klasik-Okullardaki 8. Sınıf Öğrencilerinin Çevreye Yönelik Tutumlarının Karşılaştırılması ve Öğrenci Görüşleri*. [The Comparison of Environmental Attitudes of 8th Grade Elementary School Students attending the Eco-Schools and the Classical Schools and Students' Views]. Master's thesis. Ankara: Gazi University Institute of Educational Sciences.
- Er, F., & Girgin, S. (2015). Eko-Okullar ile Klasik Okullardaki 8. Sınıf Öğrencilerinin Çevreye Yönelik Tutumlarının Karşılaştırılması ve Öğrenci Görüşleri. *International Ejer Congress 2015 "Eğitimde İnovasyon ve Profesyonelleşme"*, At Hacettepe University Ankara Turkey, p. 811-814.
- Field, A. (2013). *Discovering statistics using IBM SPSS statistics*. London: Sage
- Girgin, S., & Er, F. (2016). Eko-okullarda ve klasik okullarda 8. Sınıf öğrencilerinin çevreye yönelik tutumlarının cinsiyete göre karşılaştırılması. *International Teacher Education Conference (ITEC 2016)*, Dubai, UAE.
- Kalaycı, Ş. (2010). *SPSS Uygulamalı Çok Değişkenli İstatistik Teknikleri*, 5. Baskı, Asil Yayınları, Ankara
- Kırımhan, S. (2005). *Çevre yönetimi: nüfus, kaynak ve çevre ilişkileri*. Ankara: Turhan.
- Ko, A.C.C. & Lee, J.C.K. (2003). Teachers' perceptions of teaching environmental issues within the science curriculum: A Hong Kong Perspective. *Journal of Science Education and Technology*, 12(3), 187-204.
- Krnel, D., & Naglič, S. (2009). Environmental literacy comparison between eco-schools and ordinary schools in Slovenia. *Science Education International*, 20 (1/2), 5-24.
- Mogensen, F., & Mayer, M. (2005). *Eco-schools: trends and divergences. A Comparative Study on Eco-school development processes in 13 countries*. Austrian Federal Ministry of Education, Science and Culture Dept. Environmental Education Affairs Austria.
- Özey, R. (2009). *Çevre Sorunları*. İstanbul
- Özmen, H., & Karamustafaoglu, O. (2006). *Environmental consciousness and education relationship: Determination of how environment based concepts are placed in Turkish science curricula*. Asia-Pacific Forum on Science Learning and Teaching, 7(2), Article 7, p.1.
- Özsoy S., Ertepinar, H. & Sağlam, N. (2012). *Can eco-schools improve elementary school students' environmental literacy levels?* Asia-Pacific Forum on Science Learning and Teaching, Volume

13, Issue 2, Article 3, p.1.

- Öztürk, A. (2012). The evaluation of success in raising environmental awareness through the musical instruments produced within the scope of eco schools program implemented in Eskisehir. *Procedia - Social and Behavioral Science*, 51(2012), 828-831.
- Paraskevopoulos, S., Padeliadu, S., & Zafiroopoulos, K. (1998). Environmental Knowledge of Elementary School Students in Greece. *The Journal of Environmental Education*, 29 (3), 55-60.
- Rauch, F. (2000). Schools: a place of ecological learning. *Environmental Education Research*, 6 (3), 245-258.
- Sato, M. (2006). Evolving Environmental Education and its relation to EPD and ESD. *UNESCO Expert Meeting on Education for Sustainable Development (ESD): Reorienting Education to Address Sustainability* to be held for 1-3 May 2006 at Kanchanaburi, Thailand.
- Shin, D. S. (2000). Environmental education course development for pre-service secondary school science teachers in the Republic of Korea, *The Journal of Environmental Education*, 31(4), 11-18.
- TÜRÇEV. (1995). *Eko-Okul El Kitabı [Eco-Schools Handbook]*. Translated by Serinyel, M. (Translation from Tidy Britain Group). Dösimm Press. Ankara.
- UNESCO-UNEP. (1978). *Inter-governmental Conference on Environmental Education*, 14-26 October 1977, Tbilisi, USSR. UNESCO-UNEP, Paris, France.
<http://unesdoc.unesco.org/images/0003/000327/032763eo.pdf>
- UNESCO-UNEP. (1987). *Environmental Education and Training, International Strategy for Action in the Field of Environmental Education and Training for the 1990s*, UNESCO-UNEP Congress, Moscow, USSR.
<http://unesdoc.unesco.org/images/0008/000805/080583eo.pdf>
- UNESCO. (1997). *Educating for a Sustainable Future: A Trans-disciplinary Vision for Concerted Action*, Proceedings, International Conference on Environment and Society: Education and Public Awareness for Sustainability, 8-12 December 1997, Thessaloniki, Greece.
http://www.unesco.org/education/tlsf/mods/theme_a/popups/mod01t05s01.html
- UNESCO. (2005). *A Situation Analysis of Education for Sustainable Development in the Asia-Pacific Region*, UNESCO, Bangkok, Thailand. http://www.desd.org/situational_analysis.pdf
- UNESCO. (2007). *The UN Decade of Education for Sustainable Development (DESD 2005-2014)* UNESCO, Paris, France. <http://unesdoc.unesco.org/images/0015/001540/154093e.pdf>
- United Nations Environment Programme. The Environmental Education and Training Unit (EETU). <http://www.unep.org/training/> sayfasından erişilmiştir.
- Yüksel, Y. (2009). *Klasik Okullar İle Eko-Okullar Ve Yeşil Bayraklı Eko-Okulların Çevre Eğitimi Açısından Karşılaştırılması [Comparing ordinary schools, eco-schools and eco-schools with green flag in terms of environmental education]*. Master's thesis. Ankara: Gazi University Institute of Educational Sciences.
- Yüksel, Y., Girgin, S., & Afacan Gün, A. T. (2012). International Projects of Environment-Based Education in the World and Turkey: Eco-Schools and Globe Projects. *The Fourth International Congress of Educational Research, Volume: Education for Active Ageing and Active Citizenship*. p. 2392-2406. İstanbul.
- www.ecoschools.global (information at May 28th 2020)
- www.ekookullar.org.tr (information at May 28th 2020)
- www.turcev.org.tr (information at May 28th 2020)