



Effect of play based on constructivism learning environment on collaborative learning and social development of children

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	Email:	nsh_edu@yahoo.com	Received:	07.03.2022	Acceptance:	09.08.2022
Journal of Applied Family Therapy	Abstract Aim: This study aimed to investigate the effect of a game program based on a constructivist learning environment on collaborative learning and social development of children. Method: The current study was a quasi-experimental research using a two-group design with a control group, pre-test, post-test, and follow-up phase. The statistical population of the research included all the children studying in the sixth grade of the elementary school in the 2nd district of Qazvin city in the academic year of 2018-2019 number of 20,450 people, of which 30 people were selected purposefully and					
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How to Cite This Article:	randomly divided into two groups of 15 people, experimental and					•
Shahmohammad, N., (2022). Effect of play based on constructivism learning environment on collaborative learning and social development of children, <i>aftj</i> , 3(2): 127-130	control. Two cooperative learning questionnaires by Johnson et al. (1999) and Elliott's social growth (1990) were used to collect data. For the experimental group, a game based on a constructivist learning environment was implemented, and the control group was waiting. The data were analyzed using the variance of repeated measures. Results: The results showed that the game program based on a constructivist learning environment is effective in cooperative learning (F=32.20, p=0.001) and on the child's social development (F=4.49, P=0.001) in the post-test phase, and this effect was reported in the stable follow-up phase (P = 0.05). Conclusion: The role of					
© 2022 by the authors. Licensee Iranian Association of Women's Studies, Tehran, Iran. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution- NonCommercial 4.0 International (CC BY-NC 4.0 license) (http://creativecommons.org/licenses/by- nc/4.0/)	group educa psychologic education is place with education b increase coo with a pleas. <i>Keywords:</i>	ational games in a al development of an approach in w enjoyable activiti pased on a const operative learning ant and enjoyable play, Constructiv opment, Collabora	the proce of childre hich child es. This tructivist and soci process.	ss of phy n is unde dren play a research learning al develop ng environ	sical and eniable; en and learnir also show environme pment of c	mental- ijoyable ng takes red that ent can children

References

Abdullahi R., Akhlik Yazdinejad F., Bani Asadi Musa Abadi M (2015). The relationship between work and computer games and adaptation (educational, emotional and social) in teenagers. Journal of News Sciences. 4 (20): 14-29. (Persian)

Aghazadeh M, (2008), New Teaching Methods, Tehran: Aizh Publications. (Persian)

- Ahmadvand M (2012). Game psychology. Tehran: Payam Noor University Press. (Persian)
- Asgari A., Angji L (2019) Play and its impact on child development, Tehran: Image Design Publications(Persian)
- Ashkur Kiayi A (2015). The effectiveness of computer games on improving the social skills of high-functioning self-sufficient children. Master's thesis. Allameh Tabatabai University. (Persian)
- Bobbitt, K. C., & Gershoff, E. T. (2016). Chaotic experiences and low-income children's social-emotional development. *Children and youth services review*, 70, 19-29. Isaacs, S.(susan) (2013). *Social development in young children* (Vol. 20). Routledge.
- Emadi R., Arouti Mawafaq M (2015). The effect of group educational games based on constructivist learning environment on developing creative thinking skills. Quarterly Journal of Innovation and Creativity in Humanities, 6 (1): 19-144. (Persian)
- Fardanesh H (2012). Educational Design: Basics, Approaches and Applications, Tehran: Samit Publications. (Persian)
- Ghanai Chamanabad A., Karshki H. (2011). The effect of teaching balanced sports movements on intelligence and social development of preschool children. Knowledge Horizon, 18(4): 207-203. (Persian)
- Ghasemi Velashani H (2015). Meta-analysis of the effect of computer games on students' social skills. The second national conference of computer games opportunities and challenges, Isfahan. University of Esfahan. (Persian)
- Glazer, K. (2015). Imagining a constructionist game-based pedagogical model: Using tabletop role-playing game creation to enhance literature education in high school English classes. Pepperdine University.
- Gorsuch, R. L., & McPherson, S. E. (1989). Intrinsic/extrinsic measurement: I/E-revised and single-item scales. *Journal for the Scientific study of Religion*,28(3) 348-354.
- Gresham, F. M., & Elliott, S. N. (1990). Social skills rating system: Manual. American guidance service.
- Heydari Kemroudi S., Khwarazmi Rahimabadi R., Babapour Vajari M. (2018). The effect of teaching problem solving skills on the level of social development of preschoolers. Development of Psychology, 8 (6): 78-69(Persian)
- Hsiao, H. S., Chang, C. S., Lin, C. Y., Chang, C. C., & Chen, J. C. (2014). The influence of collaborative learning games within different devices on student's learning performance and behaviors. *Australasian Journal of Educational Technology*, 30(6).
- Ismaili Gujar S., Pourrostai Ardakani S (2018). The effect of online multi-user educational computer games on students' social skills and cognitive abilities. Educational Psychology Quarterly, 15(51): 211-230(Persian)
- Johnson, D. W., & Johnson, R. T. (1999). Learning together and along: Cooperative, competitive, and individualistic learning (5th ed.). Boston, MA: Allyn & Bacon.
- Mahdavi Nesab Y., Fardanesh H., Talaei I., Hatami J. (2015). Designing and implementing the educational game of Iran's neighbors based on the principles of constructivism and providing a framework for designing an educational game. Education Quarterly. 9:128-40. (Persian)

- Mayer, B., & Harris, C. (2010). *Libraries got game: Aligned learning through modern board games.* American Library Association.
- Moghadam M., Turkman M (2010). Educational games. Tehran: School Publications. (Persian)
- Mohammadi Naini M., Ranjdoost Sh., Tahmasabzadeh Sheikhlar D. (2021). Identifying the effective components in the implementation of teaching and evaluation methods of elementary school mathematics curriculum. Journal of Adolescent and Young Psychological Studies, 2 (2): 376-365(Persian)
- Mohammadzadeh Z., Khademi Ashkazari M (2016). Teaching social skills through group games by controlling mothers' emotional intelligence, 13(43): 75-99(Persian)
- Mohammadzadeh M., Safarnavadeh M., Qudsi, A (2022). The effect of education based on the constructivist approach on students' collaborative learning in science lessons and its sustainability over time. Bimonthly Scientific-Research Education Strategies in Medical Sciences, 15 (1): 90-79(Persian)
- Nasim S, Zarrabian F (2019). Learning theories and teaching models, Tehran: Payam Noor University Press(Persian)
- Navidi A., Sheikhian M (2014). Team Building Games, School Management Development, 10(2). (Persian)
- Noemí, P. M., & Máximo, S. H. (2014). Educational games for learning. Universal Journal of Educational Research, 2(3), 230-238.
- Park, S. B., Jung, J. J., & You, E. (2015). Storytelling of collaborative learning system on augmented reality. In *New Trends in Computational Collective Intelligence* (pp. 139-147). Springer, Cham.
- Polin, L. G. (2018). A constructivist perspective on games in education. In *Constructivist* education in an age of accountability (pp. 163-188). Palgrave Macmillan, Cham.
- Rahimi Q., Pirkhizranian M., Fazil F (2015). Investigating the role of play in the development of students' social skills. Seventh International Conference of Psychology and Social Sciences. Razi International Conference Center. (Persian)
- Reaney, M. J., & Whateley, A. (2019). The place of play in education. Routledge.
- Ren, L., Hu, B. Y., & Song, Z. (2019). Child routines mediate the relationship between parenting and social-emotional development in Chinese children. *Children and Youth Services Review*, 98, 1-9.
- Sabzevar M., Liaqtdar M., Abedi A. (2014). Comparison of the dimensions of social skills of elementary school students in public and non-government schools in Isfahan city, New Educational Approaches, 21(10): 88-100(persian)
- Saif A (2016). New educational psychology. Tehran: Doran Publications. (Persian)
- Sanatgar R., Esmaili M. (2019). The effectiveness of group play therapy on social acceptance and hope in children with cancer. Applied Family Therapy, 1(2): 125-140(Persian)
- Sekaran, U., & Bougie, R. (2019). Research methods for business: A skill building approach. john wiley & sons.
- Shariatmadari A (1390). Society and Education and Training, Tehran: Amir Kabir Publications. (Persian)
- Slavin, R. E. (2014). Cooperative Learning and Academic Achievement: Why Does Groupwork Work?.[Aprendizaje cooperativo y rendimiento académico:, por qué funciona el trabajo en grupo?]. Anales de Psicología/Annals of Psychology, 30(3), 785-791.

- Sohrabi F., Soltani T., Khalili E (2013). Comparison of psychological toughness and type of defense mechanism in hemodialysis treated people and normal people. Applied Psychology, 8(29): 102-120(Persian)
- Soleimani Sh., Ahmadi A., Ahghar Q (2018) The effectiveness of teaching with a cognitive constructivist approach on learning, memory of sixth grade elementary students in mathematics, Research in virtual and educational learning, 7(1): 53-71(Persian)
- Theng, L. F., & Mai, N. (2013). Students' perceptions of a constructivist classroom: A collaborative learning approach. In 2013 IEEE 63rd Annual Conference International Council for Education Media (ICEM) (pp. 1-11). IEEE.
- Vasalou, A., Khaled, R., Holmes, W., & Gooch, D. (2017). Digital games-based learning for children with dyslexia: A social constructivist perspective on engagement and learning during group game-play. *Computers & Education*, 114, 175-192
- Yazdani F., Abbasi E., Hosni M., Ali Asgari M (2017) Design and Validation of the Social Education Curriculum Model in the First Secondary Course with Emphasis on Upstream Documents, Research in School and Virtual Learning, 6(2)): 18-30(Persian)
- Zemliansky, P., & Wilcox, D. (Eds.). (2010). Design and Implementation of Educational Games: Theoretical and Practical Perspectives: Theoretical and Practical Perspectives. IGI Global