

Asian Research Consortium

Asian Journal of Research in Social Sciences and Humanities Vol. 11, No. 5, May 2021, pp. 15-32.

ISSN 2249-7315

Asian Journal of Research in Social Sciences and Humanities

www.aijsh.com

A Journal Indexed in Indian Citation Index DOI NUMBER:10.5958/2249-7315.2021.00014.9

Different Perspective on Teaching Motor Skills: A Critical Analysis

Dr. Kishore Mukhopadhyay*

*Associate Professor, Union Christian Training College, Berhampore, Murshidabad, West Bengal, India. kishore.km2007@gmail.com

Abstract

An important part of a comprehensive physical education program is instruction in fundamental motor skills. Motor learning is also of great theoretical and experimental interest to psychologists and neuroscientists. New motor patterns are learned through movement, interactions with rich sensory environments, and challenging experiences that challenge a person to solve problems they encounter. The knowledge about motor control and motor learning shape our understanding of how individuals progress from novice to skilled motor performance throughout the lifespan. This page provides an overview about Motor Control and Motor Learning. In this article the various theories and models of motor learning has been critically discussed and appropriate measures has been highlited depending upon various researcher's view.

Keywords: Motor Skill, Cognitive, Associoative, Autonomous and motor learning.

References

- Graham, G.; Holt/Hale, A.; S. & Parker, M. (2003). Children Moving: A reflective approach to teaching physical education (6th Edition). USA: McGraw-Hill.
- Umphred, Darcy A. Umphred's Neurological Rehabilitation. 7th edition. St. Louis, Mo: Elsevier/Mosby, 2013.



Medical Dictionary for the Health Professions and Nursing. (2012). Retrieved March 11 2016 from http://medical-dictionary.thefreedictionary.com/motor+learning

- Shumway-Cook A, Woollacott M. Motor Control: Translating Research into Clinical Practice. Philadelphia: Lippincott Williams & Wilkins, 2007. Print.
- Krakauer JW. Motor learning: its relevance to stroke recovery and neurorehabilitation. Curr Opin Neurol. 2006 Feb;19(1):84-90. doi: 10.1097/01.wco.0000200544.29915.cc. PMID: 16415682.
- Bate P. Motor Control. In: Sheila Lennon & Maria Stokes. Pocketbook of Neurological Physiotherapy. Churchill Livingstone, 2008. p31 40.
- Fitts PM, Posner MI. Human Performance. Brooks/Cole Pub. Co; Belmont, CA: 1967.
- Bernstein N. The co-ordination and regulation of movements. The co-ordination and regulation of movements. 1966.
- Shumway-Cook A, Woollacott M. Motor Control: Translating Research into Clinical Practice. Philadelphia: Lippincott Williams & Wilkins, 2007. Print.
- https://web.uvic.ca/~thopper/WEB/archive247/term2/week3/principleslearning.htm
- Curran T. and Schacter, D.L. (2001), "Implicit Learning and Memory: Psychological and Neural Aspects", in: Smelser, N. J. and Baltes, P. B. (Eds.), International Encyclopedia of the Social & Behavioral Sciences, USA: Pergamon, pp. 7237-7241. https://doi.org/10.1016/B0-08-043076-7/03513-0
- Gross, R. (2014), Themes, Issues and Debates in Psychology, 4th Ed., UK: Hodder Education.
- Xie, T.T.; Wang, T.Z.; Wei, Y.P. and Ye, E.C. (2019), "Declarative memory affects procedural memory: The role of semantic association and sequence matching", Psychology of Sport and Exercise, Vol. 43, pp. 253-260. https://doi.org/10.1016/j.psychsport.2019.03.009
- Pavlik, P.I., Jr. and Anderson, J.R. (2005), "Practice and Forgetting Effects on Vocabulary Memory: An Activation-Based Model of the Spacing Effect", Cognitive Science, Vol. 29, No. 4, pp. 559-586. https://doi.org/10.1207/s15516709cog0000_14
- MoiselloC,CrupiD,TunikE,QuartaroneA,BoveM,TononiG, Ghilardi MF. Theserial reactiontime taskrevisited: A study onmotor sequencelearningwithanarm-reachingtask.ExpBrainRes194:143-155, 2009.
- Wei K, Kording K. Relevance of error: What drives motor adaptation? JNeurophysiol 101: 655-664, 2009.
- SchmidRichard A and Craig A. Wrisberg Motor Learning and Performance: A Situation-based Learning Approach, Human Kinetics, 2008 Health & Fitness.
- Wang & Yang , https://fitpublishing.com/sites/default/files/excerpt_appliedmotorlearning.pdf



- Goodway JD, Ozmun JC, Gallahue DL. Understanding motor development: Infants, children, adolescents, adults. Jones & Bartlett Learning; 2019 Oct 15.
- Hardy LL, Reinten-Reynolds T, Espinel P, Zask A, Okely AD. Prevalence and correlates of low fundamental movement skill competency in children. Pediatrics. 2012 Aug 1;130(2):e390-8.
- Walkley J, Holland BV, Treloar R, O'Connor J. Fundamental motor skills: A manual for classroom teachers. Victoria. Department of Education; 1996.

https://www.physio-pedia.com/Fundamental_Motor_Skills_and_Sports_Specific_Skills.

- Sperry, R. W. (1971) A modified concept of consciousness. In E. Julian (Ed.), Experimental studies of altered consciosness. New York Viking Press. Reprinted from (148); reprinted (157.5), (158.5) and (200M)
- Bouchard, C., Barry, D., McPherson, D., Taylor, A. (1992). Physical Activity Sciences. Champaign, IL: Human Kinetics, P.O. Box 5076.
- Bompa, T. (1999). Periodization, Theory and Methodology of Training. Champaign IL: Human Kinetics, P.O. Box 5076.
- Marjanovič-Umek L., Zupančič, M., Fekonja, U., Kavčič, T., Svetina, M., Tomazo, T., Ravnik, T., & Bratanič, B. (2004). Razvojna psihologija (Psychology of development). Ljubljana: Rokus.

https://onlinelibrary.wiley.com/doi/abs/10.2307/3586671

 $https://www.physio-pedia.com/Fundamental_Motor_Skills_and_Sports_Specific_Skills\#cite_note-1$