

CONSTRUCTIVISM IN TEACHING AND LEARNING

Editors

Dr. M. Umamaheswari

M.sc., M.Sc Psy. , M.Ed., M.Phil, Ph.D, UGC-SET
Assistant Professor of Education,
Lakshmi College of Education (Govt-aided),
Gandhigram, Dindigul.

&

Dr. K. Devisri

Assistant Professor,
& Deputy Controller of Examinations,
Department of Curriculum Planning and Evaluation,
Tamil Nadu Teachers Education University,
Chennai, India.



Title : **Constructivism in Teaching & Learning**

Editor's Name : **Dr. M. Umamaheswari & Dr. K. Devisri**

Published by : **Mithra Dev Publications,**
Contact: 7502844666 & 9786920701

Publisher's Address : **Mithra Dev Publications,**
1/36, School Street, Pernaickenpatti,
Sithurajapuram Post, Sivakasi– 626189,
Tamil Nadu, India.

Edition Details (I) : **I**

ISBN : **978-93-95151-28-3**

Month & Year : **February, 2023**

Copyright @ : **Mithra Dev Publications.**

Pages : **203**

CONTENTS

Article Sl. No.	Title of the Article	Page Number
1.	META COGNITIVE APPROACH AND MATHEMATICS LEARNING OF STUDENT TEACHERS Dr. Indu. H., and Mrs. Meenakshi P.K.	1
2.	IMPORTANCE OF TECHNOLOGY IN 21ST CENTURY LEARNING ¹ Dr. R. Bagdha Vatchala Perumal, ² K. Vinothkumar and ³ Dr. J. Udhayarani	6
3.	INNOVATION IN EDUCATION THROUGH CONSTITUTIONAL PRISM AN EXPLANATORY STUDY Mr. A. Panneerselvam	12
4.	CONSTRUCTIVIST LEARNING THEORIES Dr. P. Subramanian and Mr. R. Kalaichelvan	20
5.	AWEARNESS ON E-RESOURCES AMONG PERSPECTIVE TEACHERS Dr. K. Jayaraman and Ms. K. Devendrakula Thirumagal	24
6.	EFFECTS OF CHORAL READING IN SCHOOL STUDENTS: A LEARNING STRATEGY Ms. P. Shanthasheela ¹ & Dr. T. Premalatha ²	27
7.	INNOVATION IN EDUCATION RECENT TRENDS, SOURCES, IMPALEMENTS AND BARRIERS Dr. M. Jagadesh and Mr. Sasikumar S	32
8.	TEXTUAL PROBLEMS IN ENGLISH TEXTBOOKS OF TAMILNADU GOVERNMENT Dr. F. Vincent Rajasekhar and Mr. V. Sivaraj	43
9.	DEVELOPMENT OF 21ST CENTURY SKILLS AND COMPETENCIES IN LIFE SCIENCE TEACHING AND LEARNING: A REVIEW ON TECHNOLOGY INTEGRATION Ms. Rajalakshmi Jagamathi and Mrs. G. Maheswari	47
10.	TEACHING ENGLISH TO EFL STUDENTS Dr. M. Malarvizhi and Ms. I. Jansi Lakshmi	51

11.	RECENT TRENDS IN INDIAN EDUCATION Mr. P. Sivagnana Sakthivel and Dr. L. George Stephen	56
12.	PERSPECTIVES TOWARDS RECENT TRENDS IN INDIAN EDUCATION SYSTEM Dr. Radhika Vidhyasagar	65
13.	CONSTRUCTIVISM IN TEACHING AND LEARNING Dr. S. Gerald and Ms. G.Nanthini	70
14.	NEED FOR CHANGES IN EDUCATION TODAY Dr. R. Sengamalam @ Vaanathi and Dr. M. Rajeshkumar	77
15.	ENRICH TEACHING OF ENGLISH GRAMMAR [TEG] AMONG SCHOOL STUDENTS VIA BLOOM'S TAXONOMY Ms. A.M.K. Jansi Rani	85
16.	BLEND OF INNOVATION AND ACTIVE LEARNING METHOD TO IMPROVE INDIAN EDUCATION SYSTEM Ms. Ranjana Heigrujam ¹ , Dr. Philomina M.J ²	90
17.	RECENT TRENDS IN EDUCATION Dr .S. Thilagarani, and Mrs. K. Tamilselvi,	102
18.	LEARNING STRATEGIES FOR IMPAIRED CHILDREN- AN OVERVIEW Mr. P.Karnan ¹ and Ms. K. Devisri ²	106
19.	IMPARTING ENGLISH LANGUAGE THROUGH ICT Dr. M. G. Ramprasath	111
20.	INTEGRATION OF HANDS-ON EXPERIENCE AS A TEACHING APPROACH IN CLASSROOM Ms. Kalyana Sundari R,	117
21.	RECENT TRENDS ON TEACHING APPROACHES IN EDUCATION Ms. Raghul Kumar. R.,	121
22.	LEARNING GETS BETTER VIA OUTCOME BASED EDUCATION –AN ANALYSIS Mr. M. Babu	126

23.	INNOVATIVE TEACHING: A TOOL TO PROMOTE CONSTRUCTIVE LEARNING FOR A PROSPECTIVE GLOBAL VILLAGE Rathish M.,	130
24.	NEED OF CURRICULUM CHANGES Dr. K. Devisri and Dr. C. E. Jayanthi	135
25.	ACTIVE LEARNING METHODS Ms. Savitha. V	139
26.	INNOVATIVE TEACHING LEARNING PRACTICES - Ms. Athira. P. U	145
27.	CONSTRUCTIVISM IN TEACHING & LEARNING - INNOVATION IN EDUCATION Mr. B. Vijayan	151
28.	INNOVATIONS IN EDUCATION Ms. Anitha, U.	156
29.	NEEDS & IMPORTANCE OF CURRICULUM CHANGE: AN OVERVIEW Mrs. Veena Anisha Kalkoor	162
30.	SYNERGY OF BLOOMS REVISED TAXONOMY AMONG PROSPECTIVE TEACHERS Dr. S. Jerslin	168
31.	POSITIVE EDUCATION AND CONSTRUCTIVISM APPROACH TO LEARNING IN DIGITAL ERA Ms. P. Kalaivani** and Dr. N. Devaki** **	172
32.	EFFECTIVENESS OF HANDS ON EXPERIENCE IN LEARNING Ms. Kavitha. P	180
33.	A STUDY ON INFLUENCE OF CO-CURRICULAR ACTIVITIES ON LEADERSHIP QUALITIES AMONG DEGREE COLLEGE STUDENTS Dr. Prashantha Kumara T.M	185
34.	SOCIAL MEDIA: THE CONSTRUCTIVE PEDAGOGY FOR NEXT GENERATION Mr. *A. Victor Sorna Prabhu **Dr. P. S. Sreedevi	189
35.	VALUE OF BRAIN YOGA AND PRANAYAMA Mrs.*G.Maheswari and ** Dr. Indu. H.	196

METACOGNITIVE APPROACH AND MATHEMATICS LEARNING OF STUDENT TEACHERS

Dr. Indu. H.,
Professor and Deputy Dean,
Department of Education
Avinashilingam Institute for Home
Science and Higher Education for Women,
Coimbatore-108. induedn@gmail.com

Mrs. Meenakshi P.K.
Ph.D. Scholar, Department of Education
Avinashilingam Institute for Home
Science and Higher Education for Women,
Coimbatore-108.
18phedp004@avinuty.ac.in

Abstract

Learning is a continuous process which helps the Individual to be active throughout life. Still, in order to be successful learners, reflection, feed- reverse and a mindfulness of our knowledge is essential. Metacognition is the mindfulness of one's own pattern of thinking. Metacognitive mindfulness helps a learner to be tone directed and tone regulated. Mathematics literacy can be astronomically defined as the accession of new knowledge, chops, and affects that are related to volume, space, and structure. Promoting Metacognition begins with structure mindfulness among learners which may affect in academic success. Hence, the present study is accepted by the investigators to explore the Metacognitive mindfulness and its relation to mathematics literacy among B.Ed scholars. The sample for the study was 62 and check system was used. Achievement test grounded on KWLH system was used. The results indicated that there exists no correlation between Meta cognitive mindfulness and Achievement in Mathematics. crucial words Metacognitive Awareness, Mathematics literacy, KWLH system

Key words: Metacognitive Awareness, Mathematics learning, KWLH method

1. Introduction

Most of the educators, lay stress on the social aspects of education along with the academic areas. They believed that education is a life-long process for everyone, as a result they gradually adopt them to the physical, intellectual, emotional and social environments. Hence, Education is an integral part of society that involves the transmission of knowledge and activation of learning through experiences of the life and formal education. Education is absolutely necessary for each and every individual if he or she is to lead a successful life. The term Metacognition was introduced by John Flavell of Stanford University in 1976 to refer to the individual's own awareness and consideration of cognitive processes and strategies. Metacognition entails two components: knowledge of cognitive process and regulation of cognitive process. Academic achievement means accomplishment in proficiency of performance of the student in various subjects of the curriculum. In other words, academic achievement refers to the quantity and quality of learning in a subject or a group of subjects assessed by examination marks. Research on how Metacognitive processes impact student learning is ongoing and many studies reveal that positive significant relationship between psychological wellbeing, Metacognitive skills and academic success exists. Yucellsgor (2016),