

Implementation of Cooperative Learning Method to Enhance the Students' Learning Ability and Students' Core Competencies

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Abstract

Modern society is complex and ever-changing. To adapt to this situation, the level of education must be continuously enhanced, and college students who are about to enter society are the group that needs the most attention. As a creative and effective teaching organizational form and teaching strategy, the cooperative learning method plays an important role in education and teaching. This article research aims to achieve the following two goals: 1) Compare students' learning abilities after the cooperative learning method and traditional teaching method. 2) Compare students' core competencies after the cooperative learning method and traditional teaching method. The participants in this study were students studying physics at Guangxi Normal University for Nationalities in China. It includes a control group consisting of 30 students and an experimental group consisting of 30 students. The research tool used a Likert scale question, and the data were analyzed using normal distribution and standard deviation. The research results show that students' learning ability and core competencies after the cooperative learning method are better than traditional teaching method ($P < 0.01$).

Keywords: core competencies, cooperative learning method, instructional design, learning ability

1. Introduction

1.1 Introduce the Problem

According to the compulsory education curriculum plan and curriculum standards (2022 edition), we should adhere to the goal orientation, problem orientation, and innovation orientation, enhance the comprehensiveness and practicality of the curriculum, guide the transformation of the education method, and strive to improve students' learning ability and core competencies (Miao & Lili, 2022). Although the research on cooperative learning method started early, there are relatively few related studies on cooperative learning method in the "Electrical and Electronic Technology" course, and the implementation of cooperative learning method from the perspective of students to improve their learning ability and core competencies is still in the exploratory stage. In response to the above content, the following questions are raised: 1) When the cooperative learning method is implemented in the "Electrical and Electronic Technology" course, what are the characteristics of the current status of students' learning ability and core competencies? 2) How can the cooperative learning method be further applied in the "Electrical and Electronic Technology" course to help students improve their learning ability and core competencies?

1.2 Introduce the Hypotheses

The literature has shown that there is an effective cooperative learning method that can improve students' learning ability and core competencies. As a teaching model that has received much attention in the field of education and teaching, cooperative learning promotes mutual communication and cooperation among students through group cooperative learning, which is conducive to promoting students' active learning, expression ability and teamwork spirit (Vajun, 2024). Therefore, the introduction of cooperative learning has become an important way to improve students' learning ability and core abilities. This study hypothesizes that: 1) After intervening in teaching through cooperative learning, students' reading ability, comprehension ability, memory, concentration and creativity can be improved. 2) After intervening in teaching through cooperative learning, students' core abilities of humanistic background, scientific spirit, learning to learn, responsibility, practical innovation and

Implementation Of The Cooperative Learning Method In

**Ivy Geok-chin Tan, Shlomo
Sharan, Christine Kim-eng Lee**

Implementation Of The Cooperative Learning Method In:

An Instructor's Guide for Implementing Cooperative Learning in the Equipment Records and Parts Specialist Course Judith E. Brooks, 1987 *The Teacher's Role in Implementing Cooperative Learning in the Classroom* Robyn M. Gillies, Adrian Ashman, Jan Terwel, 2007-09-26 Cooperative learning is widely endorsed as a pedagogical practice that promotes student learning. Recently the research focus has moved to the role of teachers' discourse during cooperative learning and its effects on the quality of group discussions and the learning achieved. However, although the benefits of cooperative learning are well documented, implementing this pedagogical practice in classrooms is a challenge that many teachers have difficulties accomplishing. Difficulties may occur because teachers often do not have a clear understanding of the basic tenets of cooperative learning and the research and theoretical perspectives that have informed this practice and how they translate into practical applications that can be used in their classrooms. In effect, what do teachers need to do to affect the benefits widely documented in research? A reluctance to embrace cooperative learning may also be due to the challenge it poses to teachers' control of the learning process, the demands it places on classroom organisational changes, and the personal commitments teachers need to make to sustain their efforts. Moreover, a lack of understanding of the key role teachers need to play in embedding cooperative learning into the curricula to foster open communication and engagement among teachers and students, promote cooperative investigation and problem solving, and provide students with emotionally and intellectually stimulating learning environments may be another contributing factor. *The Teacher's Role in Implementing Cooperative Learning in the Classroom* provides readers with a comprehensive overview of these issues with clear guidelines on how teachers can embed cooperative learning into their classroom curricula to obtain the benefits widely attributed to this pedagogical practice. It does so by using language that is appropriate for both novice and experienced educators. The volume provides an overview of the major research and theoretical perspectives that underpin the development of cooperative learning pedagogy, outlines how specific small group experiences can promote thinking and learning, discusses the key role teachers play in promoting student discourse, and demonstrates how interaction style among students and teachers is crucial in facilitating discussion and learning. The collection of chapters includes many practical illustrations drawn from the contributors' own research of how teachers can use cooperative learning pedagogy to facilitate thinking and learning among students across different educational settings. *Handbook of Cooperative Learning Methods* Shlomo Sharan, 1994-02-17 This professional reference overviews cooperative learning and includes sections on generic methods of instruction, the application of cooperative learning to particular disciplines, and the implementation of programs in schools. *Technical College Instructors' Implementation of Cooperative Learning* Margaret Mary Brunn, 1996 **Policy and Practice in Bilingual Education** Ofelia García, Colin Baker, 1995-01-01 A collection of pivotal papers from 1986-1993 on bilingualism and bilingual education, grouped in sections on policy and legislation, implementation of bilingual policy in schools.

bilingualism in instruction and using the bilingualism of the school community Articles conclude with suggested student activities and discussion questions encouraging students to take on an advocacy oriented role The reader can be used alone or with the publisher s Foundations of Bilingual Education and Bilingualism No index Annotation copyright by Book News Inc Portland OR

Cooperative Learning in Elementary School Matthias Giepen,2011-11-17 Seminar paper from the year 2010 in the subject Pedagogy School Pedagogics grade 2 University of Kassel language English abstract Abstract Nowadays social skills become more and more important Radical changes in numerous fields make the development of social skills more difficult The development of social skills can be encouraged through forms of cooperative learning The relevance of cooperative learning forms is elevated by the special advantages that their use within the EFL classroom offers Cooperative learning greatly improves the classroom atmosphere and fosters the development of a child s personality especially during primary school The limited fluency of primary school pupils seems to make it very difficult to implement some of the more complex cooperative learning methods Teachers are often afraid of implementing cooperative learning forms in primary school Putnam Spenciner 1993 p 125 In this paper reasons for the implementation of cooperative learning forms in primary school are given In addition cooperative learning methods are elaborated in terms of their usability in the EFL primary classroom

Effective Teaching Whitney Henderson,2024-06-01 Grounded in research and experience Effective Teaching Instructional Methods and Strategies for Occupational Therapy Education offers practical examples of various types of instructional methods and theoretical models for educators in occupational therapy and other allied health professions to use in evidence based teaching Dr Whitney Henderson includes the latest trends and methods used in education to facilitate student centered learning With an easy to understand overview of each technique presented allied health educators can follow step by step details to implement various evidence based instructional methods Each chapter of Effective Teaching contains Description of the instructional method Evidence supporting use of the method Discussion of a learning theory and how the method relates to this theory Discussion of how to use the method to develop clinical reasoning Advantages and disadvantages of the method Examples of classroom use Application of the method to a professional situation With excellent explanations of theoretical foundations how to methods and models and strategies for educators to employ Effective Teaching Instructional Methods and Strategies for Occupational Therapy Education is a one stop shop for implementing unique and useful instructional methods in educational courses

Group Investigation and Student Learning Ivy Geok-chin Tan,Shlomo Sharan,Christine Kim-eng Lee,2006 *Deep Learning in Adaptive Learning: Educational Behavior and Strategy* Chia-Chen Chen,Patrick Hung,Erol Eđriođlu,Kuo-Lun Hsiao,2022-09-14 *Resources in Education* ,1991-07 Formative Evaluation of Teacher Implementation of the One Bird - Two Habitats Curriculum Kathryn D. Row,1994

Cooperative Learning and Strategies for Inclusion JoAnne Wachholz Putnam,1998 This book reviews the basics of cooperative learning and provides guidance to educators and administrators on adapting curricula and implementing methods such as

multilevel instruction Learning experiences through cooperative learning and teaching methods Iramba Iramba,2012-12-30 Essay from the year 2012 in the subject Pedagogy Job Education Further Education University of Dodoma College of Education language English abstract Cooperative Learning has been recommended and mandated as the most useful teaching and learning method by the Ministry of Education and Vocational Training in Tanzania Perhaps operating in consistence with the challenges of learner centred education the ministry came out with the Teacher Education Programme TEP as a professional support to college tutors Most instructors of teachers colleges in Tanzania have taken the TEP which emphasizes the learner centred ideology a paradigm shift away from the traditional teacher centred education Capitalizing on quantitative and qualitatative data this paper makes a critical reflection on the learning experiences through cooperative teaching methods in Tanzania primary schools The paper is divided into five parts The first part examines cooperative learning as a learner centred activity The second part explores both the roles of teachers and students in a cooperative teaching and learning setting The third part highlights the measured learning effects through cooperative teaching methods The fourth part is the author s reflections on his learning experiences through Cooperative Learning and Teaching Methods The fifth part is a conclusion of the paper *The Implementation of Cooperative Learning Methods of Instruction for Fourth Grade Math Students* Ruth Proch,1989 **Psychoeducational Interventions in the Schools** Charles A. Maher,1987

The Effectiveness of Co-Operative Learning Fatema Rupawala,2012-08 Cooperative learning is an approach to organizing classroom activities into academic and social learning experiences Aim of the study was to analyze the effectiveness of cooperative learning method in select schools in Bangalore The study was conducted in two phases In the first phase a school that practices cooperative learning method as one of its teaching technique was selected Students were observed and documented during a cooperative learning session Still pictures and video recording was taken during the session A semi structured interview was conducted on two teachers who were specialized in cooperative learning method In the second phase a school that does not implement cooperative learning as one of its teaching technique was selected To study the effectiveness of this method a cooperative learning session was organized and implemented Still pictures were taken A semi structured interview was conducted on two teachers who were specialized in lecture method The finding show that when this method was implemented observed on both the schools it was found that cooperative learning was the most effective method as the success was very high compared to lecture metho Cooperative Learning in the Social Studies Classroom Robert John Stahl,Ronald L. VanSickle,1992 This bulletin provides a context for and an overview of cooperative learning addressing concerns and answering questions teachers supervisors and parents may have about this group approach to teaching and learning in the social studies The intention was to help social studies educators construct a sound conceptual foundation for cooperative learning while eliminating misconceptions Nine chapters detail building an adequate introductory conceptual framework for envisioning cooperative learning as a viable alternative approach to teaching in the

social studies classroom The first chapter introduces the concept philosophy and practice of cooperative learning The second chapter focuses on the classroom environment and classroom characteristics with and without cooperative learning groups Chapters 3 and 4 contain reviews of the literature that address effects of cooperative learning in classroom settings Chapter 5 6 and 7 focus on classroom teachers In these three chapters teachers from first grade through secondary school discuss how cooperative learning has worked in their classrooms They provide a unique perspective on how one can make the transition from using traditional teaching methods to becoming a successful user of cooperative learning Practical ideas about how to implement cooperative learning in social studies classrooms are included as well as some historical context for group learning The final chapter features a dialogue of a group of teachers who are training to use cooperative learning A position statement on ability grouping is included DK **Cooperative Learning** June Belcher-Veasley,2019-06-28 Considering the research which supports cooperative learning as an effective instructional method one might be curious as to the reasons why some educators are not knowledgeable of cooperative learning techniques Unfortunately however during this study direct observation revealed that effective implementation of cooperative learning techniques has been hindered in instances where teachers lacked sufficient knowledge about the benefits and mechanics of using cooperative grouping strategies to facilitate high levels of achievement This guide however is intended to serve as a cooperative learning strategy blue print or resource for teachers who desire to help young learners comprehend grasp complex concepts effectively communicate collaborate and ultimately experience high levels of academic success **International Journal of Educational Reform** ,2007 *Adult Learning in a Cooperative Learning Environment* Rose Margaret Lataillade-Beane,1992

Adopting the Melody of Term: An Psychological Symphony within **Implementation Of The Cooperative Learning Method In**

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