



# Cooperative Learning in the Classroom

How it Works?

# Using Cooperative Learning In The Mathematics Classroom

**Alice F. Artzt, Claire M. Newman**



## **Using Cooperative Learning In The Mathematics Classroom:**

Engaging Mathematics Students Using Cooperative Learning John D. Strebe, 2014-01-09 In this book author and veteran teacher John D Strebe offers a wide selection of student engagement strategies for math teachers in grades K 12 Strebe shares his class tested ideas in a clear and spirited voice with his devotion to the teaching profession and his students apparent on every page Motivate your math students using the strategies in this book gleaned from Strebe s 38 years of teaching experience Engaging Mathematics Students Using Cooperative Learning shows teachers how to create a climate in which students learn and work respectfully in teams and in which they strive to improve their math skills together Additionally many of the engagement strategies can be applied in classrooms of other subjects With invaluable ideas to help students remain engaged for longer time periods this book is especially helpful for teachers instructing in a block schedule

*The Effectiveness of Cooperative Learning in the Mathematics Classroom* Areej Barham, 2012 The study investigates the rationale and value of using cooperative learning strategies in the mathematics classroom with special reference to its effectiveness in promoting problem solving skills and levels of achievement in mathematics In this it is compared with traditional teaching methods The study sample was composed of 348 eighth grade students in eight classes from two separate female and male schools and included female and male teachers Two female and two male teachers were trained in the use of cooperative learning strategies in their classes during the implementation of the experiment while the other four teachers had been asked to keep using their usual traditional teaching methods The experiment took place within two scholastic semesters and the same mathematical content was covered by the two groups within the experiment Pre and post mathematical achievement tests were employed to assess students progress in achievement and problem solving skills Also a programme evaluation questionnaire was applied at the end of the experiment for all students involved In addition to the quantitative methodology the study also addressed qualitative issues All the teachers involved in the experiment and a sample of students were interviewed Lesson observations were conducted within the research programme to evaluate the implementation of the cooperative learning strategies and teachers and students responses towards it In addition teachers were asked to record weekly diaries to assess their judgement on student progress within the experiment The researcher recognises that teachers and students who apply cooperative learning strategies might be strongly motivated and be more enthusiastic by the very fact of trying a new strategy Consideration was therefore given to this point at all stages The study tries to determine if such strategies are really valuable in the mathematics classroom allowing for all the variables and have measurable effects in promoting problem solving skills and achievement in mathematics The study demonstrates that cooperative learning strategies enhance the teaching and learning process by transferring focus from a teacher centred situation into a student centred learning context This enriches the cognitive competitive and social interaction and hence develops outcomes in the cognitive affective motivational and social domains The study proved the positive impact of

applying such strategies in enhancing mathematical achievement and promoting problem solving skills compared with the impact made by traditional teaching strategies Cooperative learning strategies could offer all students with different abilities the opportunities to cooperate interact and participate in the mathematics lesson This gave them a chance to do mathematics by themselves speak their thoughts offer and receive explanations introduce several procedures for solving problems and hence profit from the mathematical knowledge available in the group as a whole The new learning approach encouraged students to challenge problems and provided them with the opportunities to speak mathematically to understand the mathematical concepts and rules and to use them Results from the study also demonstrated that cooperative learning developed other skills It improved student interaction communication and social skills and built more positive attitudes towards learning compared with the traditional methods Developing student behaviour and personality was therefore an important additional feature The study illustrated that cooperative learning strategies help to solve problems faced by teachers in classroom management As expected the research showed that outcomes differed from case to case and from one situation to another The academic ability of students and the quality of mathematical material played an obvious role emphasising positive or negative affects On the other hand gender differences examined in the study showed that despite female students achieving better results male students actually displayed more positive attitudes toward mathematics But again female students were more enthusiastic in applying cooperative learning The study is the first of this nature to be applied in Jordan and has several implications for theory and practice No teaching method is the best but it is recommended to provide teachers with professional training programmes to apply more developmental teaching methods effectively and to modify mathematical textbooks and teachers guides for the use of different teaching methods It is recommended that more research be carried out in different fields of study to concentrate on improving the quality of learning and enhancing problem solving skills

**Incorporating Cooperative Learning Into the Mathematics Classroom Using Activities for Grades**

**7-12** Barbie King, University of Tennessee at Martin. University Scholars Committee, 1992

**How to Use Cooperative Learning in the Mathematics Class** Alice F. Artzt, Claire M. Newman, 1990

Incorporating cooperative learning into activities in the classroom

**The Achievement Benefits of Using Cooperative Learning in the High School Mathematics Classroom** Patricia Luann Allen Wabler, 1992

**How to Use Cooperative Learning in the Mathematics Class** Alice F. Artzt, Claire M. Newman, 1997

How to use cooperative learning in the mathematics class *Engaging Students Using Cooperative Learning* John D. Strebe, 2017-07-20 Motivate your students and create an engaging classroom environment with the time tested strategies in this book Drawing on over 35 years of experience author and consultant John D Strebe offers a wealth of advice for teachers who want to encourage collaboration and team learning among students of all grade levels This expanded second edition includes activities and examples across the subject areas as well as new reproducible tools for classroom use Topics include Building enthusiasm and increasing student development with games

mini competitions and team projects Implementing new seating arrangements that promote discussion and participation Keeping students engaged during lectures and presentations Facilitating group work by organizing students into teams based on academic skills and personal traits And more John D Strebe taught secondary mathematics for 38 years in the Maryland public schools He conducts workshops for teachers across the country providing instruction on setting up a cooperative and engaging classroom

### **English Language Learners in the Mathematics Classroom**

Debra Coggins,2007-02-12 The number of students whose first language is not English is increasing As a result many teachers need new resources to adapt their teaching of mathematics to support the mathematical learning of students with limited English and to include them in rigorous instruction By incorporating multimodal strategies teachers can more confidently teach standards based mathematics that can reach all of their students Through simple straightforward language and examples this resource helps teachers develop specialised understanding and strategy knowledge for supporting a high level of mathematics learning along with language acquisition

### **Student Discussions in Cooperative Learning Groups in a High School Mathematics Classroom**

Susan R. Phillips,2010 Teachers want and need students to excel in the classroom Cooperative learning is one method recognized to address this Numerous researchers have shown that cooperative learning leads to improved skills in teamwork and communication in other fields Johnson and Johnson 2007 Slavin 1995 Cooperative learning used in this study showed that the secondary math students benefited socially and academically through effective student communication This case study reported observational evidence concerning the patterns and experiences of student interaction in discussions within cooperative learning groups in several high school geometry classes Developed from data collected in observations audiotapes and student journals notebooks a multiple case study was used to examine the discussions of two groups of students in cooperative learning groups Each group participated in three activities Placemat to build team camaraderie Numbered Heads to strengthen positive interdependence and STAD to ensure individual accountability Four patterns emerged when examining the data change in attitude toward cooperative learning the development of trust group regulation and the facilitation of math learning Students showed a more positive feeling toward cooperative learning stated an increased appreciation for cooperative learning developed trust in their group members and were able to analyze what they were doing well and what areas needed work Math learning occurred when the students demonstrated how they solved problems by communicating using mathematical concepts and language

*Cooperative Learning & Mathematics* Beth Andrini,1990 Grade level 1 2 3 4 5 6 7 8 k p e i s t

### **Cooperative Learning in**

**Mathematics** Neil Davidson,1990 Grade level 1 2 3 4 5 6 7 8 9 10 11 12 p e i s t [Teaching Secondary and Middle School Mathematics](#)

Daniel J. Brahier,2016-02-12 Teaching Secondary and Middle School Mathematics combines the latest developments in research standards and technology with a vibrant writing style to help teachers prepare for the excitement and challenges of teaching secondary and middle school mathematics today In the fully revised fifth edition scholar and

mathematics educator Daniel Brahier invites teachers to investigate the nature of the mathematics curriculum and reflect on research based best practices as they define and sharpen their own personal teaching styles The fifth edition has been updated and expanded with a particular emphasis on the continued impact of the Common Core State Standards for Mathematics and NCTM s just released Principles to Actions as well as increased attention to teaching with technology classroom management and differentiated instruction Features include A full new Chapter 7 on selection and use of specific tools and technology combined with Spotlight on Technology features throughout clearly illustrate the practical aspects of how technology can be used for teaching or professional development Foundational Chapters 1 and 2 on the practices and principles of mathematics education have been revised to build directly on Common Core State Standards for Mathematics and Principles to Actions with additional references to both documents throughout all chapters A new Chapter 4 focuses on the use of standards in writing objectives and organizing lesson plan resources while an updated Chapter 5 details each step of the lesson planning process A fully revised Chapter 12 provides new information on teaching diverse populations and outlines specific details and suggestions for classroom management for mathematics teachers Classroom Dialogues features draws on the author s 35 year experience as an educator to present real world teacher student conversations about specific mathematical problems or ideas How Would You React features prepares future teachers for real life scenarios by engaging them in common classroom situations and offering tried and true solutions With more than 60 practical classroom tested teaching ideas sample lesson and activities Teaching Secondary and Middle School Mathematics combines the best of theory and practice to provide clear descriptions of what it takes to be an effective teacher of mathematics

Cooperative Learning and the Collaborative School Ronald S. Brandt, 1991 Cooperation in the classroom counteracts well established routines and values that nearly all adults and many educators take for granted Education remains a fiercely competitive enterprise and individualistic notions of professionalism predominate Despite the continued importance of independence initiative and personal achievement today s schools are experimenting with consideration sharing collegiality and commitment to group goals This volume contains readings from recent editions of Educational Leadership on cooperative learning and collaborative schools beginning with Robert Slavin s introduction and Ronald Brandt s insistence that cooperation is not un-American The articles in the second section discuss various cooperative learning models including Team Assisted Individuation Cooperative integrated Reading and Composition and Group Investigation The third section is devoted to implementation of cooperative learning and the fourth section highlights the idea of schools as caring communities developed through group work The sixth section provides ideas on how to get started and the seventh section summarizes controversies among various researchers The final section presents articles on the collaborative school focusing on developing teacher collegiality cooperative professional development and school improvement efforts The volume ends with an extensive annotated bibliography divided into nine parts MLH

Effective Implementation of Cooperative Learning

in a Secondary Mathematics Classroom Alicia Berginski, 2011 The first paper describes the four types of cooperative learning Structural Approach Mastery Designs Learning Together Curriculum Specific Packages in order to provide teachers with information for implementing cooperative learning into their mathematics classrooms The second paper provides strategies and tips for implementing writing into the teaching of mathematics

**Teaching Today's Mathematics in the Middle Grades** Art Johnson, Kit Norris, 2006 Teaching Today's Mathematics in the Middle Grades provides current and future middle school teachers with the mathematics content essential concepts methodology activities and resources to both learn and teach mathematics in grades 5 to 8 The authors focus exclusively on the middle school learner and the middle school mathematics curriculum Although each chapter discusses foundational mathematics concepts from earlier grades and previews topics that will follow the middle grades the emphasis is on the middle school This selective focus allows for proper development of critical topics in the middle school such as proportionality algebraic thinking and the integral role of manipulatives Assessment practices and problem solving are also emphasized from the viewpoint of effective practices for middle school students Unique Features React and Reflect features prompt classroom discussions by asking the reader to think independently regarding a statement issue or concern Try This features ask the reader to solve a problem first or extend the current discussion by working on an extension of a problem By completing the problem first teachers are putting themselves in the place of their students helping the teacher discover first hand common misconceptions Numerous exercises and activities appear at the end of each chapter to reinforce student understanding of various topics and ensure mastery of the mathematics content The NCTM Principles and Standards are emphasized throughout the book beginning with a discussion in Chapter 1 Each of the content chapters 6 11 opens with the relevant NCTM content standards for that chapter In addition marginal icons highlight areas within the text in which the NCTM process standards are discussed Reviewers rave From the content organization and approach it is evident that the authors have years of teaching experience This gives the text authority Marina Krause California State University Long Beach The authors do an excellent job of presenting in sequential order essential concepts methodology activities and technological resources essential to assist the beginning math teacher in preparing to teach in the middle school program Gerald Jarmon North Carolina Central University

**Mathematics Education in Singapore** Tin Lam Toh, Berinderjeet Kaur, Eng Guan Tay, 2019-02-07 This book provides a one stop resource for mathematics educators policy makers and all who are interested in learning more about the why what and how of mathematics education in Singapore The content is organized according to three significant and closely interrelated components the Singapore mathematics curriculum mathematics teacher education and professional development and learners in Singapore mathematics classrooms Written by leading researchers with an intimate understanding of Singapore mathematics education this up to date book reports the latest trends in Singapore mathematics classrooms including mathematical modelling and problem solving in the real world context The Relationship Between

Cooperative Learning and the Mathematics Classroom Ronald Dean Furgerson, 1998      *An Assessment of the Effectiveness of Cooperative Learning Strategies in Promoting Problem-solving Skills and Achievement in Mathematics*, 2002

The study investigates the rationale and value of using cooperative learning strategies in the mathematics classroom with special reference to its effectiveness in promoting problem solving skills and levels of achievement in mathematics. In this it is compared with traditional teaching methods. The study sample was composed of 348 eighth grade students in eight classes from two separate female and male schools and included female and male teachers. Two female and two male teachers were trained in the use of cooperative learning strategies in their classes during the implementation of the experiment while the other four teachers had been asked to keep using their usual traditional teaching methods. The experiment took place within two scholastic semesters and the same mathematical content was covered by the two groups within the experiment. Pre and post mathematical achievement tests were employed to assess students progress in achievement and problem solving skills. Also a programme evaluation questionnaire was applied at the end of the experiment for all students involved. In addition to the quantitative methodology the study also addressed qualitative issues. All the teachers involved in the experiment and a sample of students were interviewed. Lesson observations were conducted within the research programme to evaluate the implementation of the cooperative learning strategies and teachers and students responses towards it. In addition teachers were asked to record weekly diaries to assess their judgement on student progress within the experiment. The researcher recognises that teachers and students who apply cooperative learning strategies might be strongly motivated and be more enthusiastic by the very fact of trying a new strategy. Consideration was therefore given to this point at all stages. The study tries to determine if such strategies are really valuable in the mathematics classroom allowing for all the variables and have measurable effects in promoting problem solving skills and achievement in mathematics. The study demonstrates that cooperative learning strategies enhance the teaching and learning process by transferring focus from a teacher centred situation into a student centred learning context. This enriches the cognitive, competitive and social interaction and hence develops outcomes in the cognitive, affective, motivational and social domains. The study proved the positive impact of applying such strategies in enhancing mathematical achievement and promoting problem solving skills compared with the impact made by traditional teaching strategies. Cooperative learning strategies could offer all students with different abilities the opportunities to cooperate, interact and participate in the mathematics lesson. This gave them a chance to do mathematics by themselves, speak their thoughts, offer and receive explanations, introduce several procedures for solving problems and hence profit from the mathematical knowledge available in the group as a whole. The new learning approach encouraged students to challenge problems and provided them with the opportunities to speak mathematically to understand the mathematical concepts and rules and to use them. Results from the study also demonstrated that cooperative learning developed other skills. It improved student interaction, communication and social skills and built more positive attitudes.

towards learning compared with the traditional methods Developing student behaviour and personality was therefore an important additional feature The study illustrated that cooperative learning strategies help to solve problems faced by teachers in classroom management As expected the research showed that outcomes differed from case to case and from one situation to another The academic ability of students and the quality of mathematical material played an obvious role emphasising positive or negative affects On the other hand gender differences examined in the study showed that despite female students achieving better results male students actually displayed more positive attitudes toward mathematics But again female students were more enthusiastic in applying cooperative learning The study is the first of this nature to be applied in Jordan and has several implications for theory and practice No teaching method is the best but it is recommended to provide teachers with professional training programmes to apply more developmental teaching methods effectively and to modify mathematical textbooks and teachers guides for the use of different teaching methods It is recommended that more research be carried out in different fields of study to concentrate on improving the quality of learning and enhancing problem solving skills

**Helping Children Learn Mathematics** Robert E. Reys, Mary Lindquist, Diana V. Lambdin, Nancy L. Smith, 2004-03-10 Grade level 1 2 3 4 5 6 7 8 k p e i t

**Teaching Children Mathematics** ,2009-08

## Reviewing **Using Cooperative Learning In The Mathematics Classroom**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Using Cooperative Learning In The Mathematics Classroom**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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### **Table of Contents Using Cooperative Learning In The Mathematics Classroom**

1. Understanding the eBook Using Cooperative Learning In The Mathematics Classroom
  - The Rise of Digital Reading Using Cooperative Learning In The Mathematics Classroom
  - Advantages of eBooks Over Traditional Books
2. Identifying Using Cooperative Learning In The Mathematics Classroom
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Using Cooperative Learning In The Mathematics Classroom
  - User-Friendly Interface
4. Exploring eBook Recommendations from Using Cooperative Learning In The Mathematics Classroom
  - Personalized Recommendations
  - Using Cooperative Learning In The Mathematics Classroom User Reviews and Ratings
  - Using Cooperative Learning In The Mathematics Classroom and Bestseller Lists

5. Accessing Using Cooperative Learning In The Mathematics Classroom Free and Paid eBooks
  - Using Cooperative Learning In The Mathematics Classroom Public Domain eBooks
  - Using Cooperative Learning In The Mathematics Classroom eBook Subscription Services
  - Using Cooperative Learning In The Mathematics Classroom Budget-Friendly Options
6. Navigating Using Cooperative Learning In The Mathematics Classroom eBook Formats
  - ePub, PDF, MOBI, and More
  - Using Cooperative Learning In The Mathematics Classroom Compatibility with Devices
  - Using Cooperative Learning In The Mathematics Classroom Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Using Cooperative Learning In The Mathematics Classroom
  - Highlighting and Note-Taking Using Cooperative Learning In The Mathematics Classroom
  - Interactive Elements Using Cooperative Learning In The Mathematics Classroom
8. Staying Engaged with Using Cooperative Learning In The Mathematics Classroom
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Using Cooperative Learning In The Mathematics Classroom
9. Balancing eBooks and Physical Books Using Cooperative Learning In The Mathematics Classroom
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Using Cooperative Learning In The Mathematics Classroom
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Using Cooperative Learning In The Mathematics Classroom
  - Setting Reading Goals Using Cooperative Learning In The Mathematics Classroom
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Using Cooperative Learning In The Mathematics Classroom
  - Fact-Checking eBook Content of Using Cooperative Learning In The Mathematics Classroom
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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