ELEM 401: Teaching Math and Science in K-6
Dr. Hudson

Finding Resources in Chesnutt Library: Books, Articles, Media and Websites

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2016
ELEM 401: Teaching Math and Science in K-6

The new standards for all teacher education programs require knowledge, skills and dispositions needed by 21st Century learners. The proposed course is designed to align the new standards with content knowledge in developing math and science; to make it more user friendly for 21st Century teachers and learners. Emphasis is placed on the use of best practices that prompts integrative teaching and inquiry based learning which includes problem solving, reasoning, communication, connection, representation, debating issues involving science and technology from a global perspective.
Class Objectives

- Learn how to navigate Chesnutt Library’s Web Pages
- Learn how to find print and electronic books, and media items using the Library’s online catalog
- Learn how to identify and search relevant databases to find scholarly or peer-reviewed journal articles in education.
  - ERIC, Education Research Complete, ProQuest Education Journals and Education In Video
  - ProQuest Science Journals, ScienceDirect, Access Science, Annual Reviews, Blackwell Synergy, SciFinder
  - AMS Journals (American Mathematical Society)
- Learn how to document sources appropriately using a citation method style
  - APA (American Psychological Association)
  - RefWorks
Charles W. Chesnutt Library
Traditional and 24x7 Access

- Off-Campus Remote Access Through Your Campus Network Username and Password (My Library Record) Link on Library Homepage
- Assistance Through Chat, E-Mail, Over the Phone, In-Person, Classes, and By Appointment
- Over 365,000 Print and 170,000 E-Book Titles
- Over 1,080 Print Periodical Titles
- Over 20,000 Audio-Visual Titles
- Access to over 11,600 Full-Text Electronic Journal Titles through NC Live
- Over 370 Full-Text Databases and Websites That Contain Articles, Books, Statistics, Cases, Images, Audio, Streaming Videos, Maps, Biographies and Other Information Resources
- Laptop Checkout with 2 IDs
- Group Study Rooms with Flat-Screen TVs on the 2nd and 3rd Floors
Reference Department
1st Floor of Chesnutt Library

- Staffed by professional librarians (M.L.S.).
- Assistance by chat (24×7), over the phone, email (Allow 2 business days), in-person and by appointment with using reference materials, the online catalog, electronic databases, and basic Internet use.
- Assistance with finding books, journal articles, media items and relevant Web sites.
- Computer Lab Area With Seventy-plus (70+) computers with Microsoft Office 2010 and Internet capabilities.
- Six (6) Mac Pro Computers located in the Media Center, 2nd Floor

Regular Fall and Spring Library Hours

Hours Extended During Midterms and Finals

Monday–Thursday 7:45 a.m. until 12:00 a.m.
Friday 7:45 a.m. until 10:00 p.m.
Saturday 8:00 a.m. until 5:00 p.m.
Sunday 2:00 p.m. until 11:00 p.m.
“My Library Record” Allows You to Verify that You are Affiliated with FSU and Gives You Off-Campus Access to Materials through the Library’s Website

- Access Article and Information Databases
- Access E-Books
- Access Electronic Course Reserves
- Renew Books Online
- Request Articles and Loans of Books through ILLIAD, Our Interlibrary Loan System
Sign In By Entering YOUR CAMPUS NETWORK USERNAME (First Part of Your Email Address; Everything Before the @ symbol)

Enter YOUR NETWORK PASSWORD.

Click on Sign In
Click on “My Library Account” to See What You Have Currently Checked Out

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WorldCat is the world’s largest library catalog, helping you find library materials online.
“My Library Account” Will Show What You Have Checked Out. A Copy of This and Your FSU ID or Driver’s License Will Allow You to Check Materials Out of the 16 Other UNC System Schools and Use Their Computers and Databases On-Site.
Requests are processed daily, Monday through Friday. Most requested items are received within one week (1 to 7 days) of the date of your request. Some items may take longer if they cannot be obtained locally (2 to 3 weeks).
Once You Have Created Your Account, Submit Your Requests Online. You Can Obtain Books, Articles and Dissertations from Other Schools, Usually at No Cost.
On the Library’s Home Page, Choose the Tab, “About the Library,” Then Library Departments, Reference, and the Reference Shelf of Helpful Websites. There are Several Reference Shelf of Helpful Websites That Can Be Useful, Like the Statistical Sources.
The Reference Shelf of Helpful Websites, Choose Statistical Sources

Virtual Reference Shelf

Welcome to the Reference Shelf

We have provided starting points for you to search the Internet. These sites have been selected by our librarians as ones that will assist you in meeting many of your reference, research and information needs. Please feel free to provide us with feedback on their helpfulness and any links that you would like to see included in the future. -- Reference Department Staff

Addresses, Phone Numbers, Email

Biography and Genealogy

Books, E-Books, Bookstores, Publishers, and Open Access Journals

Calculators and Converters and Mathematical Formulas

City, County and State Resources

College Guides and Financial Aid

Encyclopedias, Dictionaries, Thesauri and Other Reference Web Sites

Ethnic Minority Resources

Federal Resources

Maps and Mapping

News and Newspapers

Radio Stations

Statistical Sources

Style Manuals and Information on Writing Papers

Television Networks and Stations
There are Several Useful Statistical Web Sites: (ex FedStats; National Center for Education Statistics; North Carolina Public Schools Statistical Profile)

- **Statistical Sources**
  - 50States.Com; States and Capitals: Statistical information about all 50 states, the commonwealths and territories of the United States.
  - AreaVibes: This site was designed to help you find the best places to live. It is created using a unique algorithm that accounts for dozens of characteristics in 7 different categories including nearby amenities, cost of living, crime, job employment, housing and weather. A total Livability Score is then calculated out of 100 for any area across the country.
  - Best Places to Live, CNN Money
  - Bureau of Economic Analysis, U.S. Department of Commerce
  - Bureau of Justice Statistics, U.S. Department of Justice, Office of Justice Programs
  - CIA World Factbook: Provides wide ranging information and statistics on countries throughout the world, including population, transportation, political and geographical information.
  - Countries and Their Cultures
  - City-Data.com: We've collected and analyzed data from numerous sources to create as complete and interesting a picture of U.S. cities as we could. We have tens of thousands of city photos not found anywhere else, hundreds of thousands of satellite photos, stats about residents (race, income, ancestry, education, employment...), geographical data, drinking data, housing, businesses, birthdays of famous people, political contributions, city government, hospitals, schools, libraries, houses, airports, radio and TV stations, zip codes, area codes, user-submitted photos, comparisons to averages... If you ever need to research any city for any reason, from considering a move there where somebody you know is staying, this is the site for you.
  - Countries and Their Cultures
  - Countries of the World, Country Rankings
  - County and City Data Book Provides a wide range of statistical information on U.S. cities, metropolitan areas, and counties.
  - Crime in North Carolina, North Carolina Department of Justice
  - Cultural Profiles Project, Citizenship and Immigration Canada: Each cultural profile provides an overview of the culture of the profiled country. While the profile provides insight into some customs, it does not cover all facets of life. The information described may not apply in equal measure to all newcomers from the profiled country. These cultural profiles are part of a larger program of research in association with the AMNI Centre at the Faculty of Social Work, University of Toronto.
  - FedStats: The gateway to statistics from over 100 U.S. Federal agencies.
  - Gallup Organization: The world's leading source for public opinion data.
  - Geographic.Org: Geographic names and other world information.
  - National Center for Education Statistics (NCES), U.S. Department of Education, Institute of Education Sciences
  - National Center for Health Statistics, U.S. Department of Health and Human Services, Centers for Disease Control and Prevention
  - North Carolina Agricultural Statistics Service, Department of Agriculture and Consumer Services
  - North Carolina County Selection Map, United States Census, State and County Quick Facts: Provides maps and links to statistical information gained from U.S. Census data.
  - North Carolina Public Schools Statistical Profile, Public Schools of North Carolina, State Board of Education, Public Instruction, Financial and Business Services, Data Reports
  - North Carolina State Center for Health Statistics
  - North Carolina State Population Estimates and Projections, Office of State Budget and Management
  - Pew Research Center for the People and the Press: The Center is an independent opinion research group that monitors public opinion and political trends.
  - PollingReport.Com: Timely, high quality cross-section of poll data on topics of national, political, economic, and health interest.
The LibGuides Page Can Provide Additional Helpful Resources, ex. Citation Guides
How to Cite - Guide to Citing Sources in Your Research Paper
by LaTasha Jones - Last Updated Aug 24, 2016
This guide lists selected Style Manuals, Citation Guides and other tools for citing both print and electronic/web sources in your work. Chesnutt Library also provides access to RefWorks, a web-based bibliography manager which automatically formats papers.
# How To Cite: Guide to Citing Sources in Your Research Paper

http://libguides.uncfsu.edu/cite

Useful Tabs: APA, Writing Process, and RefWorks

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## MLA
- Parenthetical, In-Text
- Works Cited
- Example MLA Paper

## APA
- Parenthetical, In-Text
- Reference
- Bibliography
- Example APA Paper

## Chicago
- Parenthetical, In-Text
- Reference
- Bibliography
- Example CMS Paper 1
- Example CMS Paper 2

## Other Resources
- APA Style (by Purdue OWL) | APA Style Help (by APA)
- MLA Style (by Purdue OWL)
- Library of Coreims Guide to Citing Sources
- Chicago Manual of Style, 8th Edition (Purdue OWL)
- List of other style guides and resources (by Databases University Libraries)
- Google Scholar
- RefWorks: Online Resource Management
- EndNote Citation Management Software
- Zotero Citation Management Software

### FAQs: In-Text Citations

**APA:** How do I cite a website within my paper? *(Source: PurdueOwl)*

**Electronic Resources:** If possible, cite an electronic document the same as any other document. Use rules by using the author-date style.

Examples: *Kennedy (2000)* explained...
Under “The Writing Process” Tab, Choose “On Writing Papers” for Selected Websites

How to Cite - Guide to Citing Sources in Your Research Paper

This guide lists selected Style Manuals, Citation Guides and other tools for citing both print and electronic/web sources in your work. Chesnut Library also provides access to ReWorks, a web-based bibliography manager which automatically formats papers.

Last Updated: Dec 19, 2014  URL: http://libguides.unc fsu.edu/cite  Print Guide  RSS Updates  Email Alerts

The Writing Process

This page contains the following sub-pages:

- On Writing Papers
- Accessing Articles and Writing Support on Campus
- The Research Process
- Additional Links for Students
- Annotated Bibliographies
- Scholarly vs. Popular

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Selected Websites on Citing References and Writing Papers

- 4hr.com, Letters and Forms, Over 550 Sample Business Letters
- AIP (American Institute of Physics) Style Manual
- American Psychological Association (Style Guide) - Call State University Libraries
- APA Style (6th) Quick Guide, Dalhousie University Libraries
- APA Online: APA Style.org
- APA Online: APA Style.org - Basics of APA Style Tutorial
- APA Online: APA Style.org - Supplemental Material: Writing Clearly and Concisely: General Guidelines for Reducing Bias
- APA Online: APA Style.org - Supplemental Material: Writing Clearly and Concisely: Reducing Bias By Topic: 3.13 Sexual Orientation
- APA Style Help, American Psychological Association
- ASA: Preparation Checklist for ASA Manuscripts, American Sociological Association
- Blue Book of Grammar and Punctuation at GrammarBook.com
- Chicago Manual of Style Online
- Chicago Manual of Style (Style Guide), Ohio State University Libraries
- Citation Guide - North Carolina State University
- Citation Style Sheet
- Citation Transformer
- Cite This for Me
- Citations in Context: Citing Sources
- E-Book in Library Academic Complete
- Modern Language Association
- MLA Handbook for Writers of Research Papers
- NLM Citation Formats
- RefWorks
- Visual Literacy

Style Manuals and Information on Writing Papers

Style manuals are guides that tell you exactly how to cite your sources for different disciplines. Your instructor will let you know what style to use.

If you are not sure whether to cite a source, it is always a good idea to air on the side of caution and include a citation.

The following is a link to Style Guides available at Charles Chesnutt Library:

http://library.uncfsu.edu/reference/RefStyleMan.htm

Style Manuals in Print Available at Charles Chesnutt Library

Style Manuals are available in print at the Reference Desk or on Reserve at the Circulation Desk, which are both located on the first floor of the Library. There are also titles located in the Main Stacks and E-Book Titles.

This guide provides examples for selected research sources based on the style recommended in the Publication Manual of the American Psychological Association (APA) (6th ed., 2010). In-text citations indicate the exact location for sources of information used in the text of the paper; the reference list describes the works from which the citations are taken.

NOTE: APA requires double-spacing between ALL text lines, including references. In an attempt to save space, this document has been formatted in single spacing.

Formatting your paper

APA style requires that you use parenthetical citations to document quotations, paraphrases, summaries, and other material from a source used in your paper corresponding to the full bibliographic entries found in a list of references included at the end of your paper. To cite a source in the text of your assignment, indicate in parentheses the last name of the author(s), or if there is no author, the first few words of the document title (in quotation marks), followed by the year of publication, and the page number. The following paragraphs show sample in-text citations:

In his classic study, Gardner (2004) summarizes the scepticism of current researchers and observers about whether the messages presented in the Fourth Assessment Report were really about the end of the World as we know it. His conclusion is that “anthropogenic global warming is occurring” (p. 22) and human activities are to blame. But four renowned researchers (Tannenbaum, Leung, Sudha, & White, 2005) who re-analysed published data have rejected the likelihood of human influence on recent climate and concluded that:

The current climate change is natural. The close of the millennium was marked by a deep suspicion of the natural world and an increasing reliance upon the pronouncements of soothsayers and visionaries, who caused hysteria with their doom-laden forecasts of the end of humanity. (p. 184)
In-text citations and references

NOTE: See page 6 for author variations, e.g., how to cite a reference by more than one author, by a corporate author, or when no author is listed.

1. JOURNAL ARTICLES

| In-text citations                               | (Ashe & McCutcheon, 2001, p. 101) |

REFERENCE LIST


2. NEWSPAPER & MAGAZINE ARTICLES
APA Style

What is it? Developed by the American Psychological Association, APA style is widely used, not only in the social science and management but also in the humanities and natural sciences.

How do I do it? There are two parts to APA citation: in-text reference and the list of reference at the end. See The Purdue Online Writing Lab (http://owlenglish.purdue.edu) for detailed guidelines.

Don't forget - you must cite your source both 1. In-Text and in a 2. Reference List

1. In-text Citation

The in-text component of APA citation includes two main elements: the author’s last name and the year of the publication (e.g., Ross, 1997). And the page number whenever quoting directly or paraphrasing a specific section of the text (e.g., Ross, 1997). For more than one author, list the names in the order they appear in the source. Refer to http://libguides.uncsfu.edu/APAintonext.

2. Reference List

The list of references on your paper's last page is titled “References” and should be arranged in alphabetical order. Refer to the Reference List page for more information on how to cite works accurately at http://libguides.uncsfu.edu/referencelist.

Useful APA Links

- APA Formatting and Style Guide
  From the Online Writing Lab (OWL) at Purdue University. Includes formatting, in-text citations, references lists, and more.
- APA Examples from Research and Documentation Online
  by Diana Hacker with research sources by Barbara Fister, Bedford St. Martin's Press.
RefWorks is a web-based bibliographic citation manager assisting you to organize your research. You can collect, save, and organize bibliographic citations to journal articles, books, web sites and other sources that you have found during your research. It allows you to create correctly formatted bibliographies in the style of your choice.

This service is FREE for all Fayetteville State University students, staff and faculty and is accessible both on and off campus. To use the software, you will need to create and account at http://tinyurl.com/6n7agx8.

What that means:

- Create your own personal database.
- Import references from the library’s databases.
- Automatically format your papers & bibliographies in seconds, and creating works cited information.
- Manage all types of research information.
- Collaborate with your peers and colleagues.

Click on the following link of a list of RefWorks Direct Export Partners:
http://www.refworks.com/content/products/direct_export.asp
Boolean Operators

use **OR** to expand your search:
*Mathematics Education or Science Education*

use **AND** to narrow your search:
*Kindergarten and Science Education*

combine **AND** and **OR**:
*(Mathematics Education or Science Education) and
(Early Childhood or Young Children)*
Selected Library of Congress Subject Headings

- Active Learning
- Algebra
- Arithmetic Study and Teaching Elementary
- Children’s Literature in Mathematics Education
- Counting
- Early Childhood Education
- Education Elementary Curricula Standards United States
- Education Preschool and Kindergarten
- Education Teaching Methods and Materials Mathematics
- Geometry
- Math Anxiety
- Mathematical Ability
- Mathematics Ancient
- Mathematics and Physical Education
- Mathematics Education
- Mathematics in Art
- Mathematics in Literature
Selected Library of Congress Subject Headings

- Mathematics Social Aspects
- Mathematics Study and Teaching
- Mathematics Study and Teaching Elementary
- Mathematics Study and Teaching Elementary Standards United States
- Mathematics Study and Teaching Elementary Standards United States
- Mathematics Study and Teaching Middle School Standards United States
- Mathematics Study and Teaching Preschool
- Mathematics Study and Teaching Psychological Aspects
- Mathematics Teachers
- Number Concept
- Number Concept Study and Teaching
- Problem Based Learning
- Science Study and Teaching
- Science Study and Teaching United States
- Symmetry Physics
Selected Library of Congress Subject Headings

- Active Learning
- Children
- Early Childhood Education
- Education Elementary Curricula Standards United States
- Education Preschool and Kindergarten
- Education Teaching Methods and Materials Mathematics
- Education Teaching Methods and Materials Science and Technology
- Mathematics and Physical Education
- Mathematics Education
- Mathematics Social Aspects
- Mathematics Study and Teaching
- Mathematics Study and Teaching Elementary
- Mathematics Study and Teaching Elementary Standards United States
- Mathematics Study and Teaching Preschool
- Mathematics Teachers
- Problem Based Learning
- Science Study and Teaching
- Science Study and Teaching United States
Finding Books and Non-Print Materials
Select the Books Tab
Do a Basic Search in the Online Catalog

Search Fayetteville State University and beyond

Books   Articles   DVDs   Audio Books   Internet Resources

Limit results to: Fayetteville State University

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If we don’t have your book at FSU we can probably get it for you. Click here to find out more.

Search Books Worldwide
To search items from OCLC, use the search dropdown arrow and choose Libraries Worldwide.

WorldCat from OCLC

Course Reserves
- Search in Reserve Items by the title or keywords in the title of the book, chapter, media item, or article title, ex. Lottery.
- Search in Courses by the prefix and number, ex. ENGL 120; or by the Professor’s last name, ex. Harrington; or by the Department name, ex. Sociology.
Do a Basic Search in the Online Catalog

Under Format You Can See the Books and eBooks. The Advanced Search is Under the Search Box at the Top. You Can Also Sort Results.
Keyword Search, All Formats, Which Includes Articles
Record Display for a Print Book

Under “Get it in the Library” See the Location and the Call Number to Find in the Library. Scroll Down for More Information

Series Title:
Mathematics education in the digital era, v. 2.

Responsibility:
Alison Clark-Wilson, Omelia Robutti, Nathalie Sinclair, editors.

Abstract:
Offering research articles and descriptive texts, this book addresses the key issue of the initial education and lifelong professional learning of teachers of mathematics to enable them to realize... Read more...

Publisher Synopsis:
From the book reviews: "It is useful to anyone who wants to get a clear picture of what we know about the uses of technology through the lens of the teacher in real mathematics classrooms... It... Read more...
LC Subject Headings

- Mathematics teachers — Training of
- Mathematics teachers — In-service training
- Educational innovations
- Mathematics — Study and teaching
- Mathematics teachers
- Education
- Mathematics
- Educational psychology
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Teaching the Common Core Math Standards with Hands-On Activities, Grades 3-5

by Muschla, Judith A., Muschla, Gary Robert, Muschla-Berry, Erin

PUBLISHER
John Wiley & Sons, Incorporated

DATE
February 2014

Search within book

Table of Contents
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Title Page
Copyright
Contents
About This Book
About the Authors
Acknowledgments

Section 1: Standards and Activities for Grade 3
Operations and Algebraic Thinking: 3.OA.1

“Represent and solve problems involving multiplication and division.”

1. “Interpret products of whole numbers, e.g., interpret 5 \times 7 as the total number of objects in 5 groups of 7 objects each.”

BACKGROUND

When items in equal-sized groups are combined, multiplication can be used to find the total number of items. For example, hamburger rolls are sold in packages of 8 rolls. If 3 bags are purchased, you can multiply to find the total number of rolls. Three packages (groups) of 8 rolls can be expressed as 3 \times 8. The product is 24 rolls. Note also that 8 \times 3 = 24, but in this case there are 8 groups of 3 items per group.

ACTIVITY: COMBINING GROUPS

Working in pairs or groups of three, students will generate ways that groups of items can be represented in real-world situations. They will then draw an illustration of the groups and write a description and a related multiplication sentence.

MATERIALS

Drawing paper; crayons; colored pencils for each pair or group of students.

PROCEDURE

1. Ask your students to think about the ways things are grouped so that each group has the same number of items. Present the example of the hamburger rolls that was provided in the Background section. You may suggest other examples, such as sports (the number of starting players per team), board games (4 cards per person), shopping (6 cupcakes per package), school (5 books per student), and so on. Encourage your students to brainstorm other possible groups.

2. Explain that students are to select an equal-sized group and then decide the number of groups. Provide time for students to work on this activity.
The webcasts provide teachers in Head Start programs with important information on why math should be incorporated into early childhood education, how math can be taught in early childhood education, and how teachers can train themselves on using successful teaching strategies within the early childhood education setting. Webcasts were followed by question and answer sessions and were archived at [Read more...](#).
- Reference Books are located on the First Floor and Do Not Circulate
  - Call numbers A-Z

- New Books are located on the First Floor Near the Staircase

- FSU Main Stacks Books, including Juvenile and Oversize are located on the Second and Third floor and Can Be Checked Out, Up to 20 for 28 Days
  - Call numbers A-K on the Second Floor
  - Call Numbers L-Z on the Third Floor, also Oversize, and Juvenile

- Media Center has DVDs, Videos, CDs, and Cassettes on the Second Floor that Can Be Checked Out, Up to 3 for 3 Days

- Government Documents and Archives are on the Fourth Floor and Some Government Materials Do Circulate, Archives Do Not Circulate
Finding Databases and Journal Articles
Select the Journal Articles and Databases Tab
Select Databases to Search for a Topic

Charles W. Chesnutt Library Database Finder
Use databases to find articles and information on a variety of subjects.
Choose Education or Mathematics or a Science From the List and Click on Go
List of Databases on Education in Alphabetical Order

Subject Search Results for Education

Your search produced 63 results

Select Subject

ABC-CLIO E-Book Collection
Over 7,000 encyclopedias, dictionaries, handbooks, and guides from ABC-CLIO, Greenwood Press, Libraries Unlimited, and Praeger.

Academic Search Complete

Alexander Street Video
Search all of Alexander Street’s video offerings from one page. Coverage includes American History, Counseling & Therapy, Dance, Education, Ethnic Studies, Ethnography, Humanities, Nursing, Opera, Politics & Current Affairs and Theater.

America: History and Life
Historical coverage of the United States and Canada from prehistory to the present.

American Chemical Society
Access dozens of journals published by the American Chemical Society.

American Doctoral Dissertations
Covering the years 1933 to 1955 and comprising nearly 100,000 U.S. dissertations, EBSCO’s product provides a convenient way to access the history of academic disciplines.
Education Full Text (H.W. Wilson)
"provides full text of articles from over 350 journals as far back as 1996, in addition to indexing of more than 770 periodicals dating back to 1983."

Education in Video
The first online collection of streaming video developed specifically for training and developing teachers. More than 1,000 video titles totaling 750+ hours of teaching demonstrations, lectures, documentaries, and primary-source footage of students and teachers.

ERIC
Coverage is from 1966 - present of journal articles and documents such as reports, handbooks, and monographs in education. ERIC, the Educational Resource Information Center, provides access to education literature and resources. The database provides access...

Films on Demand
AKA Digital Education Video, this service has more than 20,000 available titles.

Funk and Wagnalls New World Encyclopedia
(Current). This resource features over 25,000 informative segments to meet the research needs of elementary, middle, and high school students.

Gale Directory Library
An engine for searching compiling and exporting contact information contained in directories. A serious tool for researchers, grant seekers and job hunters.

Gateway to Educational Materials
A resource for educators that provides access to educational materials on federal, state, university, nonprofit, and commercial Internet sites.

Go Ask Alice
Go Ask Alice! is the health question and answer Internet resource produced by Alice! Health Promotion at Columbia University.

Human Kinetics Journals
The database provides access to education literature and resources. The database provides access to information from journals included in the *Current Index of Journals in Education* and *Resources in Education Index*. The database contains more than 1.3 million records and links to more than 323,000 full-text documents dating back to 1966.
Mathematics Education Limited to Peer Reviewed Produces 15,549 Results

Search Results: 1 - 10 of 15,549

1. Mathematical Investigations for Supporting Pre-Service Primary Teachers Repeating a Mathematics Education Course
   Full Text from ERIC
   Subjects: Foreign Countries; Teacher Education; Preservice Teachers; Mathematics Education; Education Courses; Bachelor's Degrees; Replication; Interviews; Informed Consent; Student Teacher Attitudes; Pedagogical Content Knowledge; Knowledge Level; Emotional Response; Educational Research; Geometric Concepts

2. The Effect of Dynamic Software on Prospective Mathematics Teachers’ Perceptions Regarding Information and Communication Technology
   Full Text from ERIC
   Subjects: Computer Software; Mathematica Instruction; Preservice Teachers; Student Teacher Attitudes; Mathematics Teachers; Secondary School Mathematics; Teacher Education Programs; Computer Assisted Instruction; Technology Integration; Foreign Countries; Algebra; Geometry; Teaching Methods; Mixed Methods Research; Pretests; Posttests; Case Studies

3. An Evaluation into the Views of Candidate Mathematics Teachers over "Tablet Computers" to be Applied in Secondary Schools
   Full Text from ERIC
   Subjects: Foreign Countries; Preservice Teachers; Student Teacher Attitudes; Handheld Devices; Mathematics Teachers; Questionnaires; Rating Scales; Statistical Analysis; Gender Differences; Mathematics Instruction; Computer Abilities; Interpersonal Relationship; Teacher Student Relationship; Student Surveys; Measures (Individuals); Predictor Variables; Secondary School Mathematics; Secondary School Students

4. Chemical Literacy Levels of Science and Mathematics Teacher Candidates
   By: [Author Name]. [Journal Name], [Volume] [Issue] [Page Numbers] [Publication Year]. (EJ106001)
   Full Text from ERIC
   Subjects: Foreign Countries; Preservice Teachers; Student Teacher Attitudes; Handheld Devices; Mathematics Teachers; Questionnaires; Rating Scales; Statistical Analysis; Gender Differences; Mathematics Instruction; Computer Abilities; Interpersonal Relationship; Teacher Student Relationship; Student Surveys; Measures (Individuals); Predictor Variables; Secondary School Mathematics; Secondary School Students
Search Results: 1 - 10 of 425

1. An Investigation of Item Bias in Science and Technology Subtests and Mathematics Subtests in Level Determination Exam (LDE)
   Subjects: Test Bias; Grade 6; Grade 7; Grade 8; Science Education; Technology Education; Mathematics Education; Gender Differences; Test Items; Expertise; Foreign Countries; Regression (Statistics); Females; Males; Gender Bias; Elementary School Students; Secondary School Students; Transitional Programs
   Show all 7 images
   PDF Full Text

2. A Study on Sixth-Grade Turkish Students’ Spatial Visualization Ability
   By: Kurtulus, Aytoc; Yolcu, Belma. Mathematics Educator, v22 n2 p82-117 2013. (EJ1013939)
   Subjects: Grade 6; Elementary School Students; Spatial Ability; Foreign Countries; Visualization; Mathematics Skills; Cognitive Ability; Scores, Interviews, Mixed Methods Research, Problem Solving, Elementary School Mathematics, Geometric Concepts, Visual Stimuli, Mathematical Concepts; Pictorial Stimuli; Computer Uses in Education
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An Evaluation of Interactive Tabletops in Elementary Mathematics Education

Author(s): Jackson, Alexander T.; Drumel, Bradley J.; Pollet, Cody L.; Greer, David D.


Abstract: This research examined the effect of a relatively new Computer Supported Collaborative Learning (CSCL) device, specifically an interactive tabletop, on elementary students' attitudes toward collaborative technologies, mathematical achievement, and the gender gap in mathematics. Prior research has shown many positive effects of CSCL technologies on mathematics education, such as increased math performance and an increased interest in math. Further, previous research has shown inconsistent results regarding gender differences in mathematics and has not examined the effect that CSCL technology has on the gender gap. Therefore, the effects of interactive tabletops on math performance, attitudes, and gender differences were examined. This study was conducted using a sample of 83 elementary students. The technology was brought to the classroom twice each week for an entire academic semester. To obtain a more accurate understanding of the influence of the CSCL technology, both self-report data and performance data were collected. Specifically, changes in students' attitudes and reactions and changes in cognitive learning were measured. The results show that students learn and react favorably towards interactive tabletops. Implications for future research are discussed.
An evaluation of interactive tabletops in elementary mathematics education

Alexander T. Jackson • Bradley J. Brummet • Cody L. Pullet • David D. Greer

Published online: 7 February 2013
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Keywords Computer Supported Collaborative Learning • Mathematics • Elementary students • Gender differences • Interactive tabletops

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An Evaluation of Interactive Tabletops in Elementary Mathematics Education

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Peer Reviewed: Yes

ISSN: 1042-1839


Abstract: This research examined the effect that a relatively new Computer Supported Collaborative Learning (CSC) device, specifically an interactive tabletop, has on elementary students' mathematics achievement.
An Evaluation of Interactive Tabletops in Elementary Mathematics Education

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Peer Reviewed: Yes

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Abstract: This research examined the effect that a relatively new Computer Supported Collaborative Learning (CSCIL) device, specifically an interactive tabletop, has on elementary students!
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Abstract

THE STUDY DOCUMENTS what deaf education teachers know about discrete mathematics topics and determines if these topics are present in the mathematics curriculum. Survey data were collected from 290 mathematics teachers at center and public school programs serving a minimum of 120 students with hearing loss, grades K-8 or K-12, in the United States. Findings indicate that deaf education teachers are familiar with many discrete mathematics topics but do not include them in instruction because they consider the concepts too complicated for their students. Also, regardless of familiarity level, deaf education teachers are not familiar with discrete mathematics terminology, nor is their teaching structured to provide opportunities to apply the real-world-oriented activities used in discrete mathematics instruction. Findings emphasize the need for higher expectations of students with hearing loss, and for reform in mathematics curriculum and instruction within deaf education.

Full text

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Making Sense of Sensory Information
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Education in Video provides resources for both new and experienced teachers tools to increase their knowledge and skills and for education faculty to link abstract theories of education to real-world students and classrooms.

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Building with Cuisenaire rods  3:30

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Presents 107 short video clips illustrating the HighScope approach in action. These clips are filled with useful ideas for activities and teaching practices that can be used throughout the daily routine in HighScope programs or in programs using any child development approach. The web clips are organized into 10 categories enabling you to quickly find the perfect clip to meet your needs, whether your interest is in planning with children at different developmental levels, supporting children with problem solving, using the message board, or promoting learning in a specific content area such as math or literacy.

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Disc 1: Mathematics
in Watch Us Learn! Scenes from HighScope Preschools, 1 (Ypsilanti, MI: HighScope, 2011), 36 mins
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