ERIC

Date revised: 02 August 2021

Description

This database is sponsored by the U.S. Department of Education to provide extensive access to education-related literature. ERIC provides coverage of journal articles, conferences, meetings, government documents, theses, dissertations, reports, audiovisual media, bibliographies, directories, books and monographs.

Subject Coverage

ERIC (Education Resources Information Center) is a digital library covering topics including:

- Adult, Career, and Vocational Education
- Counseling and Personnel Services
- Elementary and Early Childhood Education
- Educational Management
- Handicapped and Gifted Children
- Higher Education and Junior Colleges
- Information Resources
- Languages and Linguistics
- Reading and Communication Skills
- Rural and Urban Education, Small Schools
- Science, Mathematics, and Environmental Education
- Social Studies and Social Science Education
- Teacher Education
- Tests, Measurement, and Evaluation

Date Coverage

1966–present

Update Frequency

Monthly

Geographic Coverage

International

Document Types

- Reports
- Books and Monographs
- Policy Papers
- Conferences, Symposia, Meetings
- Journal Articles

Publisher

ERIC is sponsored by the U.S. Department of Education. Questions concerning file content should be directed to

ERIC Project

c/o Computer Sciences Corporation
655 15th Street, N.W.
Suite 500
Washington, DC 20005

Telephone: 1-800-538-3742 (Toll-free North America only)
Fax: 1-202-628-3205
E-Mail: ericfeedback@csc.com

Sample document

ProQuest Dialog | ERIC

Basic Search | Advanced | Command Line | About

Citation/Abstract « Back to results

Add to selected items | Save to My Research | En

TI **What Works Clearinghouse Quick Review: "Conceptualizing Astronomical Scale: Virtual Simulations on Handheld Tablet Computers Reverse Misconceptions"**

PUB What Works Clearinghouse. 2 What Works Clearinghouse. P.O. Box 2393, February 2014.

AB

Abstract (summary) Translate

This study examined how using two different ways of displaying the solar system--a true-to-scale mode vs. an orrery mode--affected students' knowledge of astronomical concepts. Solar system displays were presented in a software application on a handheld tablet computer. In the true-to-scale mode, users navigated a simulated three-dimensional solar system environment using a tablet's pinch-to-zoom touchscreen interface; this provided an accurate representation of sizes and distances of planetary bodies. The orrery mode, which is the more common way of displaying the solar system, exaggerated the size of planetary bodies relative to their orbits so surface features could be displayed. The study included 152 students from science classes in a high school in eastern Massachusetts. The study authors reported that student gains in learning astronomical concepts, measured as the differences between pretest and posttest scores, were significantly larger when using the true-to-scale mode than when using an orrery mode. This study was a randomized control trial, but additional information related to the random assignment process and study attrition is needed from the authors to determine whether this study meets What Works Clearinghouse (WWC) evidence standards without reservations. A more thorough review (forthcoming) will determine the rating for the study and report more fully on its results. [The following study is the focus of this "Quick Review": Schneps, M. H., Ruel, J., Sonnert, G., Dussault, M., Griffin, M., & Sadler, P. M. (2014). "Conceptualizing astronomical scale: Virtual simulations on handheld tablet computers reverse misconceptions." "Computers & Education," 70, 269-280.]

Indexing (details) Cite

SU **Subject**	Astronomy; Scientific Concepts; Science Instruction; Visual Aids; Handheld Devices; Computer Uses in Education; Computer Simulation; Secondary School Science; High School Students; Science Achievement; Achievement Gains; Instructional Effectiveness; Pretests Posttests; Educational Research
IF **Identifier / keyword**	High Schools, Secondary Education, Massachusetts
Education level	High Schools, Secondary Education
URL	http://www.eric.ed.gov/contentdelivery/servlet/ERICServlet?accno=ED544753
TI **Title**	What Works Clearinghouse Quick Review: "Conceptualizing Astronomical Scale: Virtual Simulations on Handheld Tablet Computers Reverse Misconceptions"
CA **Corporate/institutional author**	What Works Clearinghouse (ED)
PG **Pages**	2
PCT **Number of pages**	2
PD **Publication year**	2014
YR **Year**	2014
PB **Publisher**	What Works Clearinghouse. P.O. Box 2393; Princeton, NJ 08543-2393.
Publisher e-mail	info@whatworks.ed.gov
PT **Source type**	Reports
PEER **Peer reviewed**	Yes
LA **Language of publication**	English

DTYPE	**Document type**	142 Reports - Evaluative
SFL	**Subfile**	ERIC, Resources in Education (RIE)
AN	**Accession number**	ED544753
	ProQuest document ID	1509087337
	Document URL	http://search.proquest.com/professional/docview/1509087337?accountid=137296
	Last updated	2014-03-21
	Database	ERIC (1966 - current)

Search fields

Field name	Field Code	Example	Description and Notes
Abstract	AB	ab("what works clearinghouse")	Use adjacency and/or Boolean operators to narrow search results.
Abstract present	ABANY	"neutral site planning" AND abany(yes)	Add *AND ABANY(YES)* to a query to limit retrieval to records with abstracts. Example: "language fluency" and abany(yes)
Accession number	AN	an(ED544753)	A unique document identification number assigned by the information provider.
ALL	ALL	all("disadvantaged student?") AND "magnet school?"	Searches all fields in bibliographic databases.
All fields + text	--	"disadvantaged student?" AND "magnet school?"	Same as ALL field code: searches all fields.
Author[1] Author First Name Author Last Name	AU AUFN AULN	au("petersen, julie") aufn(julie) auln(petersen)	Includes all Authors.
First author	FAU	fau(de la rosa, mario)	First name listed in Author field.
Availability	AV	av(meeting)	Searches and displays both Notes and Availability
Corporate author	CA	ca("what works clearinghouse")	
Document title	TI	ti("conceptualizing astronomical scale")	Conference details can be present in Document title.
Document type	DTYPE	dtype(reports evaluative)	
From database	FDB	ti(paraprofessional) AND fdb(eric)) ti(paraprofessional AND fdb(10000150)	Useful in multi-file searches to isolate records from a single file. FDB cannot be searched on its own; specify at least one search term then AND it with FDB.
Identifier (Keyword)	IF	if("higher education") if(asia)	Geographic regions, keywords
ISBN	ISBN	isbn(1845724542)	
ISSN	ISSN	issn(0022-0965) issn(00220965)	
Issue	ISS	iss(12)	
Journal title	JN	jn("journal of computing in higher education")	Look Up list available under Publication title (you can also use PUB for searching)
Language	LA	la(french)	
Notes	NT	nt(description OR test)	May display as Source Attribution. Editor names may be present.

[1] A Lookup/Browse feature is available for this field in the Advanced Search dropdown or in Browse Fields.

Pagination	PG	pg(2) pg(7-15)	
Start page	PAGE	page(7)	First page
Publication date	PD	pd(<20101014) pd(2014)	Date range searching is supported.
Publication title[1]	PUB	pub(computing)	You can also use JN for searching journal title.
Publication year	YR	yr(2014) yr(2009-2012) yr(<2008)	
Publisher	PB	pb("what works clearinghouse") pb("new york")	Publisher name, address, and sometimes URLs or availability information
Report number	RP	rp(ed-ous-00-17)	
Source type	PT	pt(reports)	
Subfile	SFL	sfl("resources in education") sfl(rie) sfl(cije)	
Subjects[1]	SU	su("science instruction") su("united kingdom")	Searches terms indexed in Subject, Identifiers, and Educational Levels. Limit available for Educational Level.
Target audience	TA	ta(parents) ta("media staff")	
Title	TI	ti("virtual simulations" PRE/3 handheld)	Conference details can be present in Document title
Updated	UD	ud(2014-03-21)	The date(s) the record was loaded as a result of an update provided by the supplier.

Search tools

Field codes are used to search document fields, as shown in the sample document. Field codes may be used in searches entered on the **Basic Search**, **Advanced Search**, and **Command Line** search pages. **Limit options**, **Look up lists**, and **"Narrow results by" filters** tools are available for searching. Some data can be searched using more than one tool.

Limit options

Limit options are quick and easy ways of searching certain common concepts. Check boxes are available for:

ERIC linked full text, ERIC journals only, Scholarly journals, ERIC documents only, Peer reviewed

Short lists of choices are available for:

Document type, Language, Education level, Target audience

Date limiters are available in which you can select single dates or date ranges for the date of **publication** and **updated**.

Browse fields

You can browse the contents of certain fields by using Look Up lists. These are particularly useful to validate spellings or the presence of specific data. Terms found in the course of browsing may be selected and automatically added to the Advanced Search form. Look Up lists are available in the fields drop-down:

Authors, Publication titles, Subjects, ERIC Subject

Thesaurus

ERIC Thesaurus is available by clicking on the “Thesaurus” hyperlink on the Advanced Search page. Thesaurus terms may be searched within the thesaurus, then selected to be added automatically to the Advanced Search form.

“Narrow Results by” filters

When results of a search are presented, the results display is accompanied by a list of “Narrow Results by” options shown on the right-hand panel. Click on any of these options and you will see a ranked list showing the most frequently occurring terms in your results. Click on the term to apply it to (“narrow”) your search results. “Narrow Results by” filters in ERIC include:

Peer reviewed, Scholarly journals, Source type, Publication title, Document type, Subject, Language, Education level, Target audience, Publication date

Look up citation

If you need to trace a particular bibliographic reference, use the Look Up Citation feature. Find a link to this towards the top left-hand corner of the Advanced Search page; click this and you will go to a form where you can enter any known details of the citation, including document title, author, journal name, volume, issue, page, publication date, ISSN.

Document formats

Document Format	Fields	Online	Export / Download
Brief view	Title and Publication date.	✓	
Detailed view	Same as Brief view plus a 3-line KWIC window.	✓	
KWIC (Keyword in Context)	Detailed view plus all occurrences of your search terms, highlighted within the fields where the terms occur.	✓	✓
Preview	Title, Author, Publication title, Publisher, Volume, Issue, Pagination, Publication date, Abstract.	✓	
Brief citation	Complete record minus Abstract and Indexing	✓	✓
Citation	Complete record minus the abstract		
Citation / Abstract	Complete record	✓[2]	✓
Link to ERIC Full text	Complete record available at eric.ed.gov	✓[3]	
Full text PDF	PDF version of the original article	✓[3]	
Custom	Choose the fields you want.		✓[4]

[2] In Online-view mode, PQD gives access to two Document Formats only: *Brief citation*, and the ‘most complete’ format available. Depending on the database, or the amount of data available for a record, the most complete format may be any one of *Citation*, *Citation/Abstract*, *Full text*, or *Full text – PDF*.

[3] In Online-view mode, PQD gives access to two Document Formats only: *Brief citation*, and the ‘most complete’ format available. Depending on the database, or the amount of data available for a record, the most complete format may be any one of *Citation*, *Citation/Abstract*, *Full text*, or *Full text – PDF*.

[4] Custom export/download format is available in the following mediums only: HTML, PDF, RefWorks, RTF, Text only.

Terms & Conditions

The **ERIC** database contains full-text resources protected by U.S. and foreign copyright laws. The authors or publishers retain copyright to these works, which are used by ERIC with permission. All persons reproducing, redistributing, or making commercial use of this information are responsible for compliance with the terms and conditions asserted by the copyright holder. Certain works, including documents, reports, and other materials authored by the U.S. government, reside in the public domain and may be freely distributed and copied.

Dialog Standard Terms & Conditions apply.

Contact Global Customer Support
Email: Customer@dialog.com
Within North America **1 800 3 DIALOG (1 800 334 2564)**
Outside North America **00 800 33 DIALOG (00 800 33 34 2564)**