

# EFFECTS OF INDIVIDUALIZED INSTRUCTION AND GENDER ON STUDENTS' ACHIEVEMENT AND RETENTION IN CHEMISTRY: IMPLICATIONS FOR MASTERY-BASED LEARNING

By

Marcellinus Chibueze Anaeckwe  
Department of Science Education  
National Open University of Nigeria, Abuja  
[manaekwe@noun.edu.ng](mailto:manaekwe@noun.edu.ng)  
08034409294

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## Abstract

This study explored the efficacy of individualized instruction and gender as factors in the achievement and retention of chemistry concepts as well as the implications of these to mastery learning strategy. The study adopted a post test-only research design. Data were collected using chemistry achievement test which has an internal consistency reliability index of 0.94. The sample consisted of one hundred and eighty-four (184) senior secondary year one (SS1) students drawn from two schools in Awka urban. The sample classes were assigned to treatment and control groups by simple random sampling technique. Treatment session was conducted using lesson plans prepared by the researcher. Research questions were answered using means and standard deviation, while hypotheses were tested at 0.05 level of signification using t- test statistics. The result indicated among other, that individualized instruction engendered significantly, more achievement and retention of chemistry concepts on the treatment group in comparison to the conventional/control group. A significant effect was recorded in retention of chemistry concepts based on gender. An obvious implication of the findings is that individualized instruction should be encouraged as a supplementary strategy for mitigating the situation whereby students who have demonstrated mastery of chemistry concepts would wait for those who have not.

**Key word:** Individualized Learning Strategy, Gender, Achievement, Retention, Chemistry.

# Research On Instruction Design And Effects

**Rita C. Richey,James D. Klein,Monica  
W. Tracey**



## **Research On Instruction Design And Effects:**

**Research on Instruction** S. Dijkstra, Bernadette H. A. M. van Hout Wolters, Peter van der Sijde, 1989 **Handbook of Research on Educational Communications and Technology** David Jonassen, Michael J. Spector, Marcy Driscoll, M. David Merrill, Jeroen van Merriënboer, Marcy P. Driscoll, 2008-09-25 First Published in 2008 Sponsored by the Association of Educational Communication and Technology AECT the third edition of this groundbreaking Handbook continues the mission of its predecessors to provide up to date summaries and syntheses of recent research pertinent to the educational uses of information and communication technologies In addition to updating this new edition has been expanded from forty one to fifty six chapters organized into the following six sections foundations strategies technologies models design and development and methodological issues In response to feedback from users of the second edition the following changes have been built into this edition More Comprehensive topical coverage has been expanded from forty one to fifty six chapters and includes many more chapters on technology than in previous editions Restructured Chapters this edition features shorter chapters with introductory abstracts keyword definitions and extended bibliographies More International more than 20% of the contributing authors and one of the volume editors are non American Theoretical Focus Part 1 provides expanded cross disciplinary theoretical coverage Methodological Focus an extended methodological chapter begins with a comprehensive overview of research methods followed by lengthy separately authored sections devoted to specific methods Research and Development Focus another extended chapter with lengthy separately authored sections covers educational technology research and development in different areas of investigation e g experimental methods to determine the effectiveness of instructional designs technology based instructional interventions in research research on instructional design models

Instructional Design: Theory, research, and models Robert D. Tennyson, S. Dijkstra, 1997 First Published in 1997

Routledge is an imprint of Taylor Francis an informa company **Handbook of Research on Educational Communications and Technology** David H. Jonassen, 2004 This edition of this handbook updates and expands its review of the research theory issues and methodology that constitute the field of educational communications and technology Organized into seven sectors it profiles and integrates the following elements of this rapidly changing field **Handbook of Research for Educational Communications and Technology** David Jonassen, Marcy Driscoll, 2003-12-08 First Published in 2008 Routledge is an imprint of Taylor Francis an informa company **Instructional Design: International Perspectives I** Sanne Dijkstra, Franz Schott, Robert D. Tennyson, Norbert M. Seel, 2013-05-13 Instructional design theory and practice has evolved over the past 30 years from an initial narrow focus on programmed instruction to a multidimensional field of study integrating psychology technology evaluation measurement and management The growth of instructional design ID has occurred because of direct needs problems and goals from society Its application in planning instruction first developed in the United States with the Department of Defense during World War II with the purpose of meeting immediate

concerns for effective training of larger numbers of military personnel From the beginning ID has rapidly expanded into applications in industrial and executive training vocational training classroom learning and professional education Although ID has its roots in the U S applications and theoretical growth is an international activity However literature at the international level is still limited to either individual author contributions or collections primarily represented by single countries As a result there is no standard reference source that contains the rich variety of theories and applications to form the international foundation for the field The goal of this two volume set is to establish international foundations for ID theory research and practice within the framework of the two following objectives to identify and define the theoretical research and model foundations for ID and to bridge the gap between ID foundations and application Volume I includes chapters on philosophical and theoretical issues on learning theory and ID models Volume II provides an overview of the state of the art of solving ID problems The contributors offer contrasting points of view which provide a rare opportunity to see the diversity and complexity in the field The editorial committee has selected a wide range of internationally known authors to make presentations in the topic areas of the field

**The Impact and Importance of Instructional Design in the Educational Landscape**

Calhoun, Christie F.,2023-08-25 Instructional design is pivotal to the landscape of education Shifts in the educational landscape require different approaches to meet different needs While it is important to realize that education in modern society looks much different than decades ago it is essential to understand that the basic components of instructional design have not changed No matter the classroom all learning must begin with clear goals and objectives learning activities and assessments From there instruction is designed using a number of models or instructional designs as a foundation to develop learning The Impact and Importance of Instructional Design in the Educational Landscape provides relevant theoretical instructional design models and the latest research findings related to these models Covering topics such as co teaching lesson planning and delivery and universal design for learning UDL this premier reference source is an excellent resource for pre service and in service teachers teacher educators instructional technology professionals library media specialists educational administrators instructional leaders researchers and academicians

**Practical Principles of Instructional Design, Media Selection, and Interface Design with a Focus on Computer-based Training /**

**Educational Software** Peter Fenrich,2014-03-21 This book is intended for students instructional designers professors instructors teachers trainers software developers and development team leaders who are taking a course on creating computer based training educational software applications are or will be working on a computer based training educational software development team need to expand their skills into the multimedia technology field are excited about the possibilities of teaching with multimedia have worked on their own and unsuccessfully tried to do it all may have created mediocre computer based training educational software want to do it right the first time need a practical reference need practical guidelines for creating computer managed presentations This book focuses on the practical principles of creating computer

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Patricia L. Smith, Tillman J. Ragan, 2004-12-07 A well documented theory based treatment that focuses on instructional design's application to industry and K 12 education Offers extensive procedural assistance emphasizing the foundations and first principles upon which most of the models and procedures in the field are built An Extended Example now online showcases applications of concepts and techniques using a single subject area and course Digital Photography *Instructional Design: International Perspectives* Sanne Dijkstra, Franz Schott, Norbert Seel, Robert D. Tennyson, Norbert M. Seel, 2012-10-12 First Published in 1997 Routledge is an imprint of Taylor Francis an informa company *Cognitive Effects of Multimedia Learning* Zheng, Robert Z., 2008-12-31 This book identifies the role and function of multimedia in learning through a collection of research studies focusing on cognitive functionality Provided by publisher **The SAGE Encyclopedia of Educational Technology** J. Michael Spector, 2015-01-29 The SAGE Encyclopedia of Educational Technology examines information on leveraging the power of technology to support teaching and learning While using innovative technology to educate individuals is certainly not a new topic how it is approached adapted and used toward the services of achieving real gains in student performance is extremely pertinent This two volume encyclopedia explores such issues focusing on core topics and issues that will retain relevance in the face of perpetually evolving devices services and specific techniques As technology evolves and becomes even more low cost easy to use and more accessible the education sector will evolve alongside it For instance issues surrounding reasoning behind how one study has shown students retain information better in traditional print formats are a topic explored within the pages of this new encyclopedia Features A collection of 300 350 entries are organized in A to Z fashion in 2 volumes available in a choice of print or electronic formats Entries authored by key figures in the field conclude with cross references and further readings A detailed index the Reader's Guide themes and cross references combine for search and browse in the electronic version This reference encyclopedia is a reliable and precise source on educational technology and a must have reference for all academic libraries Resources in Education

,2001 Handbook of Research on Managing and Designing Online Courses in Synchronous and Asynchronous Environments Durak, Gürhan,Çankaya, Serkan,2021-12-17 In order to be successful online learning should be planned systematically It can be said that offering distance education courses without preparation and knowledge about the theoretical background can cause drawbacks While distance education has become widespread and popular it is observed that there could be problems in its application Such problems can include technical problems inability to meet the learning needs at the learners own speeds lack of communication among learners and between learners and teachers and lack of quality materials appropriate for online learning or the inclusion of materials used in traditional methods directly into online learning For successful online courses these critical aspects of distance education are important and they should be taken into account by the institutions and the instructors offering online courses The Handbook of Research on Managing and Designing Online Courses in Synchronous and Asynchronous Environments provides up to date knowledge and experiences regarding technologies processes and environments for online course design in distance education systems and covers topics related to the aspects of successful distance education systems with a focus on teaching and learning in online environments Focusing on topics such as instructional design and integrated systems it is an ideal guide for online course designers instructional designers curricula developers administrators educators researchers trainers and students The Instructional Design Knowledge Base Rita C. Richey,James D. Klein,Monica W. Tracey,2010-10-18 The Instructional Design Knowledge Base Theory Research and Practice provides ID professionals and students at all levels with a comprehensive exploration of the theories and research that serve as a foundation for current and emerging ID practice This book offers both current and classic interpretations of theory from a range of disciplines and approaches It encompasses general systems communication learning early instructional media conditions based constructivist design and performance improvement theories Features include rich representations of the ID literature concise theory summaries specific examples of how theory is applied to practice recommendations for future research a glossary of related terms a comprehensive list of references A perfect resource for instructional design and technology doctoral masters and educational specialist certificate programs The Instructional Design Knowledge Base provides students and scholars with a comprehensive background for ID practice and a foundation for future ID thinking **Instructional Design: Concepts, Methodologies, Tools and Applications** Management Association, Information Resources,2011-03-31 Successful educational programs are often the result of pragmatic design and development methodologies that take into account all aspects of the educational and instructional experience Instructional Design Concepts Methodologies Tools and Applications presents a complete overview of historical perspectives new methods and applications and models in instructional design research and development This three volume work covers all fundamental strategies and theories and encourages continued research in strengthening the consistent design and reliable results of educational programs and models **Designing Effective Instruction** Gary R.

Morrison, Steven M. Ross, Howard K. Kalman, Jerrold E. Kemp, 2012-12-26 This book includes many new enhanced features and content Overall the text integrates two success stories of practicing instructional designers with a focus on the process of instructional design The text includes stories of a relatively new designer and another with eight to ten years of experience weaving their scenarios into the chapter narrative Throughout the book there are updated citations content and information as well as more discussions on learning styles examples of cognitive procedure and explanations on sequencing from cognitive load theory     **Research in Education** ,1974     The Cambridge Handbook of Multimedia Learning Richard E. Mayer, 2014-07-28 The updated second edition of the only handbook to offer a comprehensive analysis of research and theory in the field of multimedia learning or learning from words and images It examines research based principles to determine the most effective methods of multimedia instruction and uses cognitive theory to explain how these methods work     *Cognitive Load Theory* John Sweller, Paul Ayres, Slava Kalyuga, 2011-04-07 Over the last 25 years cognitive load theory has become one of the world s leading theories of instructional design It is heavily researched by many educational and psychological researchers and is familiar to most practicing instructional designers especially designers using computer and related technologies The theory can be divided into two aspects that closely inter relate and influence each other human cognitive architecture and the instructional designs and prescriptions that flow from that architecture The cognitive architecture is based on biological evolution The resulting description of human cognitive architecture is novel and accordingly the instructional designs that flow from the architecture also are novel All instructional procedures are routinely tested using randomized controlled experiments Roughly 1 3 of the book will be devoted to cognitive architecture and its evolutionary base with 2 3 devoted to the instructional implications that follow including technology based instruction Researchers teachers and instructional designers need the book because of the explosion of interest in cognitive load theory over the last few years The theory is represented in countless journal articles but a detailed modern overview presenting the theory and its implications in one location is not available

## The Enigmatic Realm of **Research On Instruction Design And Effects**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Research On Instruction Design And Effects** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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