

# How this Research was Conducted

## What is QIMS?

QIMS refers to a teaching model constructed by the research team, comprising of the steps: Questioning, Investigating, Making, and Synthesising to integrate AR with existing teaching.



**Questioning**  
Teacher/Student questioning to **raise awareness, interest, and directives** related to the topics being taught.



**Investigating**  
Leveraging on the strengths on AR to **explore phenomena** and gain a **comprehensive understanding** of the material.



**Making**  
Using AR technology to facilitate the building of visualised artefacts to **apply and deepen** students' knowledge.



**Synthesising**  
Synthesise and **conclude their understanding** of the topic through **concept mapping** and completing worksheets under the guidance of teachers.

Research data was gathered from...

**2 schools**



**7 teachers**



**363 students**



Students were required to **complete tests of the same difficulty and surveys before and after the intervention**. This was done to investigate changes in their **learning outcomes** and **21st-century skills**.

	AR and QIMS	QIMS only	Neither AR nor QIMS	Total Number of Students
2020	✓	✓	✓	88
2021	✓	✓	✓	116
2022	✓			159

# Research Within Reach Science Education

**Australia. Peter Fensham Monash  
University**



## **Research Within Reach Science Education:**

**Resources in Education** ,1995      *The Nature of Science in Science Education* W.F. McComas,2006-04-11 The Nature of Science in Science Education is the first book to blend a justification for the inclusion of the history and philosophy of science in science teaching with methods by which this vital content can be shared with a variety of learners It contains a complete analysis of the variety of tools developed thus far to assess learning in this domain This book is relevant to science methods instructors science education graduate students and science teachers      **Developments And Dilemmas In Science Education** Australia. Peter Fensham Monash University,2012-11-12 A summary of the strengths and weaknesses in present practices of science education in schools and of research in science education Annotation copyright Book News Inc Portland Or      Developments And Dilemmas In Science Education Australia. Peter Fensham Monash University,2012-11-12 A summary of the strengths and weaknesses in present practices of science education in schools and of research in science education Annotation copyright Book News Inc Portland Or      Handbook of Research on Science Education Sandra K. Abell,Norman G. Lederman,2013-03-07 This state of the art research Handbook provides a comprehensive coherent current synthesis of the empirical and theoretical research concerning teaching and learning in science and lays down a foundation upon which future research can be built The contributors all leading experts in their research areas represent the international and gender diversity that exists in the science education research community As a whole the Handbook of Research on Science Education demonstrates that science education is alive and well and illustrates its vitality It is an essential resource for the entire science education community including veteran and emerging researchers university faculty graduate students practitioners in the schools and science education professionals outside of universities The National Association for Research in Science Teaching NARST endorses the Handbook of Research on Science Education as an important and valuable synthesis of the current knowledge in the field of science education by leading individuals in the field For more information on NARST please visit <http://www.narst.org>      **Science/Technology/Society as Reform in Science Education** Robert E. Yager,1996-01-04 Science Technology Society S T S is a reform effort to broaden science as a discipline in schools and colleges to relate science to other facets of the curriculum and to relate science specifically to technology and to the society that supports and produces new conceptualizations of both S T S is also defined as the teaching and learning of science technology in the context of human experience It focuses on a method of teaching that recognizes the importance that experience in the real world has on the learning process And it recognizes that real learning can occur only when the learner is engaged and able to construct her or his own meaning Science Technology Society as Reform in Science Education is rich with examples of such teaching and learning It includes impressive research evidence that illustrates that progress has been made and goals have been met For teachers and administrators alike this book provides and validates new visions for science education      **Science Education: Science, education, and the formal curriculum** John K. Gilbert,2006

Udvalgte artikler fra 1985 2005 fordelt p 8 temaer The relationship between science and science education Aims of the formal science curriculum and the needs of the students Science education in the formal curriculum Assessment in formal science education Teaching in science education Learning in science education The conceptual development of students in science education The professional development of science teachers *AETS Yearbook* ,1985 **Elementary and Secondary Education for Science and Engineering** ,1988 **Monthly Catalog of United States Government Publications** United States. Superintendent of Documents,1987 *Monthly Catalogue, United States Public Documents* ,1987 Metacognition in Science Education Anat Zohar,Yehudit Judy Dori,2011-10-20 Why is metacognition gaining recognition both in education generally and in science learning in particular What does metacognition contribute to the theory and practice of science learning Metacognition in Science Education discusses emerging topics at the intersection of metacognition with the teaching and learning of science concepts and with higher order thinking more generally The book provides readers with a background on metacognition and analyses the latest developments in the field It also gives an account of best practice methodology Expanding on the theoretical underpinnings of metacognition and written by world leaders in metacognitive research the chapters present cutting edge studies on how various forms of metacognitive instruction enhance understanding and thinking in science classrooms The editors strive for conceptual coherency in the various definitions of metacognition that appear in the book and show that the study of metacognition is not an end in itself Rather it is integral to other important constructs such as self regulation literacy the teaching of thinking strategies motivation meta strategies conceptual understanding reflection and critical thinking The book testifies to a growing recognition of the potential value of metacognition to science learning It will motivate science educators in different educational contexts to incorporate this topic into their ongoing research and practice **Innovative Teaching Strategies in Nursing and Related Health Professions** Martha Bradshaw,Beth L. Hultquist,2016-07-29 Innovative Teaching Strategies in Nursing and Related Health Professions Seventh Edition details a wealth of teaching strategies focusing on incorporating technology into the classroom including the use of Web 2 0 technologies like blogs and podcasts Chapters on blended learning and study abroad programs are featured enabling students to gain a more diverse and increased global perspective Highlighting innovative teaching techniques for various learning environments and real world illustrations of the strategies in use this text goes beyond theory to offer practical application principles that educators can count on The Seventh Edition includes two new chapters Teaching through Storytelling and Giving and Receiving Evaluation Feedback *The Cognitive Revolution on Educational Psychology* James M. Royer,2006-05-01 After tracing the cognitive revolution back to the 1950s and assessing its fit with Kuhn s 1962 analysis of scientific revolutions Royer U of Massachusetts Amherst introduces ten essays exploring its impact on the field of educational psychology Contributors discuss the historical shift from behavioral to cognitive perspectives and its sign **Scientific Inquiry and Nature of Science** Lawrence Flick,N.G.

Lederman,2007-10-23 This book synthesizes the most current literature and research on scientific inquiry and nature of science in K 12 instruction It is unique in its presentation of the distinctions and overlaps of inquiry and nature of science as instructional outcomes The text would be appropriate for individuals preparing to become science teachers as well as experienced teachers Researchers and teachers will find the text interesting as it carefully explores the subtleties and challenges of designing curriculum and instruction for integrating inquiry and nature of science *Issues of Curriculum Reform in Science, Mathematics and Higher Order Thinking Across the Disciplines* Ronald D. Anderson,1994-12 An extensive review of the literature in the area of curriculum reform in science math higher order thinking across the disciplines Extensive bibliography [Integrating Sustainable Agriculture, Ecology, and Environmental Policy](#) Richard Olson,2018-05-02 Find an interdisciplinary view of sustainable agriculture that emphasizes the potential contributions of ecology to agricultural sustainability in this groundbreaking book Integrating Sustainable Agriculture Ecology and Environmental Policy explores how ecological knowledge applied as part of a multidisciplinary effort can be used to design a sustainable and environmentally sound agriculture A more ecologically based agriculture can increase production efficiency and decrease environmental impacts but hard choices regarding population control energy conservation and land use must still be made This interdisciplinary approach ensures that the results are beneficial to all components for example an ecologically based management scheme which bankrupts the farmer is not considered a viable option for sustainable agriculture These thought provoking chapters are an excellent introduction to the contributions of ecological principles to an environmentally sound sustainable agriculture This multidisciplinary examination provides readers interested in agriculture with a valuable introduction to related work in other fields including ecology and economics Agronomists ecologists educators and policymakers will find essential information on diverse topics including the definition and measurement of ecological sustainability in agriculture landscape ecology and the design of sustainable agricultural landscapes soil ecology as a foundation for sustainable agriculture Federal agricultural policies as incentives or deterrent to sustainable agriculture applying farming systems research and extension to sustainable agriculture population growth and other threats to sustainable agriculture environmental policies and their effects on sustainable agriculture the role of precollege education in developing sustainable agriculture **Community Connections for Science Education** Phyllis Katz,2001 Science beyond the schoolhouse is the subject of this close up look at informal science education in non traditional settings including Boys Girls Clubs 4 H zoos aquariums and even public TV More than a dozen writers draw on personal experience to tell why they became informal science educators and how they use the history and theory of traditional science education in their work Among the book s features for informal science educators are a resource directory and a special section on program evaluation [Learning Science and the Science of Learning](#) Rodger W. Bybee,2002 Sure you teach science But do your students really learn it Students of all ages will absorb more if you adapt the way you teach to the way they learn That s the

message of this thoughtful collection of 12 essays by noted science teachers Based on the latest research this is definitely a scholarly book But to bring theories to life it includes realistic scenarios featuring classrooms where students are encouraged to construct their own science learning These scenarios will give you specific ideas on how to help your students become more reflective about their learning process including what they know what their stumbling blocks are and how to overcome them You ll also examine how to use formative assessment to gauge student learning during the course of a lesson not just at the end

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