

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

Xiaolong Qi

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

Research Within Reach Science Education:

Research Within Reach David Holdzkom, Pamela B. Lutz, 1991 *Resources in Education*, 1995

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 *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* Peter Fensham, 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 Research Within Reach David Holdzkom, 1985 *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 *Elementary and Secondary Education for Science and Engineering*, 1988 **Monthly Catalog of United States Government Publications** United States. Superintendent of Documents, 1987

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