Research Community

**NEW** Analysis of MAP Results for eMNITS Students
MOREnet (Missouri Research and Education Network) and Missouri’s Department of Education include SMART Board interactive whiteboards as a major feature of the technology package provided to schools in the eMNITS program. They produce analysis to measure the impact of the program on student learning and achievement.

- Analysis of 2004 MAP Results for eMints Students
- Analysis of 2003 MAP Results for eMINTS Students
- Analysis of 2002 MAP Results for eMINTS Students
- Analysis of 2001 MAP Results for eMINTS Students

**NEW** South Texas Community College – Starr County Campus
This report presents the findings of a survey of 609 high school students in Texas. Students were asked to measure the amount of use and perceived value of seven types of education technology, including the SMART Board interactive whiteboard. Interactive whiteboards are considered to enhance student learning “a little” or “a lot” by 92% of students, the joint highest percentage of all the types studied. Published in 2001.

- [http://www.southtexascollege.edu/~research/reports/pdfs/Student_Perceptions](http://www.southtexascollege.edu/~research/reports/pdfs/Student_Perceptions)

**NEW** Teachernet Best Practice Research Scholarships – Juanita Dunlop
This study investigates and researches how the use of the whiteboard influences all aspects of teaching, and its effect on the behavior, performance and motivation of pupils. Published in November 2004.

- What types of activities using an IWB engages the three preferred learning styles and promotes learning during a Numeracy lesson?

**NEW** Teachernet Best Practice Research Scholarships – Rachel Richards
This study explores how the use of ICT stimulates, supports and enhances the visual, auditory and kinaesthetic teaching, and its effect on the behavior, performance and motivation of pupils. Published in November 2004.

- The use of interactive whiteboards for teaching and learning in secondary art and design

**NEW** Teachernet Best Practice Research Scholarships – Nicola Cologne-Birch
This research study focuses on the use the interactive whiteboard and Cabri software to teach mathematical language, with particular emphasis on parallel lines, transversal proof. The study finds that use of the interactive whiteboard stimulates discussion and leads to very powerful visual aid in the teaching of geometrical reasoning.

- Developing the language used in geometrical reasoning using Cabri and interactive whiteboards
The aim of the study was to develop the use of the interactive whiteboard as a stimulus for developing thinking skills across the curriculum. Observations show that the interactive whiteboard is a powerful tool for capturing the children’s attention. Published in November 2004.

World Bank – Study from Chile
Research from Canada, the United States and the UK provide a framework of current and practices for educational authorities in developing countries. Interactive whiteboards are highlighted on page 27 of the report. Published in October 2004.

Park Road ICT – Sean O’Sullivan
This research report studies the impact of two different types of touch-sensitive technologies (personal and collaborative) on levels of active participation on an ICT task with students with profound and multiple learning difficulties (PMLD). The dissertation was completed at Polytechnic University through Ultralab and the research was carried out in collaboration with Wise School, Banbury. Published in September 2004.

Reading Online – Pamela A. Solvie
Reading Online reissued this article by Pamela A. Solvie, who instructs at the University of Minnesota, Morris. The article originally appeared in The International Reading Association journal, The Reading Teacher. Solvie concludes that “incorporating the digital whiteboard as a tool to teach early literacy skills may help us reach young children in new and powerful ways.” Published in 2004.

Center for Educational Evaluation and Research (CEER) – Frank Zittle
This paper by Frank Zittle, vice president and director of research for CEER, was presented at ED-MEDIA World Conference on Education Multimedia, Hypermedia and Telecommunications. The results support the idea that Navajo elementary students used a SMART Board interactive whiteboard with math instruction tended to show greater posttest gains than students whose teachers did not use the product to facilitate instruction. Published in 2004.

Becta Interactive Whiteboard Research
Becta (the British Educational Communications and Technology Agency) has produced findings on ICT Advice, an online resource center for those who use, implement and evaluate information and communication technology in schools.

- Integrating an Interactive Whiteboard into the Languages Classroom (2001)
- An Exploration of the Use of ICT at the Millennium Primary School, Greenwich
- What are presentation technologies?
- What is an interactive whiteboard?
- The benefits of an interactive whiteboard
- Using interactive whiteboards

**client [c&it]**

client [c&it] is a communication and information technology unit dedicated to research and publication in the UK. It is run by Georgina Stein at Canterbury Christ Church L College (CCCUC) in Kent. It conducts research for several top-level government agencies (Department of Education and Skills) and smaller public/private sector organizations, and publishes its interactive whiteboard research reports and case studies accessible through their website.

- [http://client.canterbury.ac.uk](http://client.canterbury.ac.uk)

**Interactive Whiteboards in Primary School**

Julie Coghill's paper is a collection of reviews from three UK primary teachers on the use of interactive whiteboards. Motivation and fulfillment of ICT outcomes are the focus of this research. Published in 2001.

- Interactive whiteboards in the primary school: some effects on children and learning

**Lancaster University**

Don Passey and Colin Rogers, with Joan Machell and Gilly McHugh, wrote this report on the use of ICT as a motivational learning component for the UK Department of Education. Among their findings, the team from Lancaster University's Department of Education reports that interactive whiteboards are an important tool, along with Internet resources and presentation software, in facilitating improvements to the quality of student work, peer assessment, and self-assessment. Published in 2004.

- The Motivational Effect of ICT on Pupils

**Middle College for Technology Careers High School**

Rhonda LeDuff's paper on multimedia best practices for biology instruction recommends interactive whiteboards because they have the "potential to increase students’ participation and responsibility for learning." Visual presentations and virtual dissections engage students, who can manipulate multimedia material on an interactive whiteboard. Published in 2004.

- Enhancing Biology Instruction via Multimedia Presentations

**North Islington Education Action Zone**

Penny Latham researched and compiled the results of the North Islington Action Zone Easiteach Mathematics Project, which examined the impact of interactive whiteboards on teaching and learning in years six and seven. Published in 2002.

- Teaching and learning primary mathematics: the impact of interactive whiteboards

**Office for Standards in Education**

The UK Office for Standards in Education compiled their 2004 report on ICT in schools that "when used by an effective teacher, [an interactive whiteboard’s] power and versatility helped produce excellent lessons."

- 2004 Report: ICT in schools - the impact of government initiatives

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**http://edcompass.smarttech.com/ec/en-US/Learning+Resources/R... 4-7-2005**
Richardson Primary School Research

Educators at Richardson Primary School in Canberra, Australia are very active in the community and have published several papers that examine the success of implementing SMART Board interactive whiteboard into an "e-teaching" philosophy. The research involves Beth Lee, former director of schools in the Australian Capital Territory (ACT) Department of Education; Dr. Maureen Boyle, former director of professional development and director of the ACT; and Peter Kent, deputy principal of Richardson Primary School. Published in 2004.

- Teachers Tell Their Story: Interactive Whiteboards at Richardson Primary School
- The Educational Effects and Implications of the Interactive Whiteboard Strategy at Primary School
- e-Teaching - The Elusive Promise
- Interactive Whiteboards and the Journey to "e-teaching"

SMART Board Interactive Whiteboards in Foreign Language Classes

This research report by Fabienne Gerard and Jamey Widener, formerly of Cary Academy, North Carolina, U.S., was first presented at the SITE 99 Conference in San Antonio, Texas. The report first assesses the SMART Board interactive whiteboard and then measures its impact in foreign language classrooms. Published in 1999.

- A SMARTer Way to Teach Foreign Language: The SMART Board Interactive Whiteboard as a Language Learning Tool

Student Engagement, Visual Learning and Technology: Can Interactive Whiteboards Facilitate Learning?

This research report by William D. Beeland, Jr., hosted on the Valdosta State University website, summarizes findings of surveys and questionnaires given to middle-school students on their attitudes towards interactive whiteboards. The results indicate a strong preference for the use of interactive whiteboards in the classroom. Published in 2005.

- Student Engagement, Visual Learning and Technology: Can Interactive Whiteboards Facilitate Learning?

The Effects of the SMART Board Interactive Whiteboard on High School Students with Special Needs in a Functional Mathematics Class

Meredith Zirkle, who received her Master of Education degree from Eastern Mennonite University in Harrisonburg, Virginia, is a math teacher at Spotswood High School in Virginia. She investigated the effects of the SMART Board interactive whiteboard on the achievement of students with special needs in a functional mathematics class. The project concludes that the SMART Board interactive whiteboard appears to be a positive tool for assisting students with special needs in achieving academic success. Published in 2003.

- The Effects of the SMART Board Interactive Whiteboard on High School Students with Special Needs in a Functional Mathematics Class