TEACHER-LED INQUIRY IN SCHOOL LEARNING ENVIRONMENTS

This book provides a deep dive into teacher-led inquiries related to design, pedagogy, and collaborative practice in flexible learning environments. Mahat and Bradbeer skilfully weave together research, theory, and contextualised evidence with practical examples and insights from a range of school settings. Perhaps most importantly it is written by educators for educators in a practical and easy to understand manner. This will certainly be a "go to" book for those seeking to move into more responsive and innovative schooling design and approaches.

—Tony Grey Principal, Te Ao Mārama School, Hamilton, New Zealand

A thorough yet practical lens on the impact of teacher-led inquiry, Teacher-led inquiry in School Learning Environments: Leading by Example echoes what I have observed in my work supporting schools in implementing inquiry-based learning throughout my career, that if we want agency, ownership, and curiosity for our students, then we need schools and systems that provide agency, ownership, and curiosity for teachers. A welcome addition to any inquiry practitioner's bookshelf!

—Trevor MacKenzie

Educator, Author of Dive into Inquiry and the Inquiry Mindset

series, Consultant

LINKING THEORY AND PRACTICE IN LEARNING ENVIRONMENTS

Series Editor: Marian Mahat

This innovative series closes the gap between the theory and practice of learning environments by bringing together new research focused on the various aspects of learning environments, defined as the physical, pedagogical, and psychosocial contexts in which learning occurs.

TEACHER-LED INQUIRY IN SCHOOL LEARNING ENVIRONMENTS

Leading by Example

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United Kingdom – North America – Japan – India Malaysia – China Emerald Publishing Limited Emerald Publishing, Floor 5, Northspring, 21-23 Wellington Street, Leeds LS1 4DL

First edition 2024

Editorial matter and selection © 2024 Marian Mahat and Chris Bradbeer. Individual chapters © 2024 The authors.

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British Library Cataloguing in Publication Data

A catalogue record for this book is available from the British Library

ISBN: 978-1-83797-217-3 (Print) ISBN: 978-1-83797-216-6 (Online) ISBN: 978-1-83797-218-0 (Epub)



CONTENTS

Ab	out the Editors	ix
Ab	out the Contributors	xi
For	reword I	xiii
For	reword II	xvii
Acl	knowledgments	xxi
1.	Teacher-Led Inquiry in School Learning Environments: Setting the Context Marian Mahat and Chris Bradbeer	1
2.	Leveraging Student Voice to Inform Learning Environment Design: A Case Study of the Middle School at Singapore American School Chris Beingessner and Chris Raymaakers	11
3.	Developing Teacher Capacity for Teaching and Learning in Innovative Learning Environments Suzanne Bennett	25
4.	Plan-Act-Observe-Review: A Case Study of Claremont College Janelle Ford	41
5.	Harnessing Teacher Collaboration in Learning Environments to Notice, Recognize and Respond Hope Griffin and Anita Unka	57
6.	Constructing Education Into Innovative Learning Environments at Viscontini School: A Case Study of an Italian Primary School Cristina Colombo and Raffaele Mercuri	75
7.	Reimagining Learning Environments in Orang Asli Schools: A Lived Experience in SK RPS Banun, Perak, Malaysia Shawn Stanly Anthony Dass, Siti Noor Shafiqah Badrolhisham and Febryani Fallensia Lusiana Wadipalapa	89

viii	Contents
8. Future Directions for Teacher-Led Inquiry in School Learning Environments Chris Bradbeer and Marian Mahat	105
Index	117

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FOREWORD I

Imagine starting to build schools today instead of 150 years ago. Would we build self-contained schools and furnish the classes with bench desks, slate boards, straight rows, a piano, and one teacher (and some adult helpers) with 20–40 students? Would we insist on massed practice on one topic, then move to another, with bells and demarcation, and then insist more work is done at home? Would we insist that all students focus on one task or topic at a time, and assessments would ask each student to 'strut their stuff'? Would we insist that the teacher dominate the talking (about 90% of the time), ask the questions (typically requiring less than three-word responses), dictate the time on each task, prepare the lessons, and mark the work?

No.

If we were starting to build schools today, they would focus on learning much more than on teaching; students would be appropriately challenged to engage in problem-solving activities and taught the needed skills and confidence, and there would be close attention to the multiple paths and differences in timing necessary to attain success. Students would be taught to work alone as well as work with others; there would be rapid release of teacher responsibility, students would learn to seek and use feedback, ask probative questions, engage in assessing the credibility of information, evaluate the worthwhileness of solutions, collaboratively critique their and others learning, and know how to learn, when to learn, and evaluate their learning. Note, the space issues are not yet mentioned, as learning can occur in multiple places. However, a premise would be teams of educators engaging in the same activities relating to their successes at diagnosing problems, critiquing implementation, and evaluating their impact, hence the need for innovative learning environments (ILE).

Every chapter in this book shows the opportunities and powers of ILE and why this is the critical advantage of innovative learning environments. Students are then the beneficiaries.

This book focuses on teacher inquiry with specific reference to the use of school learning environments, thus continuing the long series of deep engagement these authors have had in this space. How do teachers approach

xiv Foreword I

inquiry, problem-solving, data collection and interpretation, action planning, and impact evaluation? This requires readiness, confidence and capability among the educators, feeding back the feedback to students and educators, developing a shared narrative of impact, implementation and evaluation, and high prominence of collective efficacy about impact. It is noted that 'putting old practice into new spaces leads only to a waste investment in new environments'.

As I updated the 2008 version of Visible Learning into the 2023 Sequel, one profound difference was the importance of school leaders knowing, defending, evaluating, and enhancing the climate and culture within every classroom and across the school. Note, the leaders' role includes *within* the classroom – however, it is configured as we cannot leave climate to the dictates and whims of each teacher. We are quite explicit about what the core elements of this climate and culture need to be, specifying 10 ways of thinking focused on whether the students feel they belong and are invited to learn, whether they believe their identities are recognized and esteemed, and whether the learning spaces are fair, equitable, and just for learning. Note, this sense of climate and culture is known from the student's perspective not the teacher's belief, in the same way that the culture and climate in the staff room and professional development sessions start from the teachers' (not leaders) perspectives.

When the learning environment is flexible, there is more focus on the language of learning regardless – and this seems the case across the many countries evident throughout this book (the remote communities in Malaysia, the outskirts of Milan, the quarries of Auckland, and from the beautiful views of Sydney). Yes, all education is local, but there is far more commonality than difference as to what struggles, dilemmas, and conundrums educators face when you focus on successful learning than on successful teaching. All students want to know the secret of how to learn, how to work alone and with others, how to know you are successful in learning, and how to maximize the opportunities within schools to achieve meaningful learning progress. Students are generally improvement machines; they do not want to comply and listen to endless hours of talking and performance by the teacher, and they fundamentally want to be challenged and not bored. In every chapter, educators also have a profound sense of curiosity to explore the opportunities of space to make this learning more successful. Curiosity wins over content every day.

A powerful message is that innovative learning environments create the most opportunities for educators to enhance their impact. Students can and do learn anywhere – straight rows, circle groups, beside a tree, and in a bean bag. However, when teachers do not have barriers or walls to isolate them, they can critique each other collaboratively to increase the impact on all their students.

Foreword I xv

They work together to optimize strengths, share observations and noticing, to make meaning and dig deeper, to triangulate across many forms of evidence, to engage in courageous open-to-learning conversations, and to emote, cognate, and appreciate the love and impact of their teaching. This comes through within each chapter.

Enjoy the chapters, hear the learning by teachers and students, and not be burdened by the fixed walls of solo practices where we 'hope' learning might occur.

Melbourne Laureate Professor Emeritus John Hattie

FORFWORD II

Change is happening all around us, whether we are fully conscious of it or not. The very experience of schooling is undergoing transformation in various contexts and countries though, admittedly, not uniformly across the globe. This inconsistency in educational evolution underscores the relevance of this collection of articles. When contemplating the transformation of learning experiences, a great deal hinges on the capacity of educators to adopt different perspectives regarding their roles. And in many contexts, this change in mindset and practice might be supported by working in more innovative learning environments. This transition, however, is easier said than done, especially considering that the majority of teacher education programs still evaluate educators based on their effectiveness as solitary figures, operating in and managing their classrooms and students largely in isolation from their peers.

My own path toward educational transformation has been enriched by observing or reading about many communities, schools, and individuals. It was enhanced by a deeper appreciation of the role of teacher inquiry combined with the opportunities of more innovative learning environments. These newer learning environments, where the design intentionally creates communities of learners far bigger than just one classroom, create the ability for collaboration and shared practice in ways that can radically transform the experience of learning. The narratives within this anthology provide clear examples of these two intertwined components: space and inquiry.

There is tremendous power in making the journey of transformation a collective envisioning process. It is through shared experiences and mutual learning that educators can cultivate a vision robust enough to unite communities and create opportunities for enhanced learner agency. Embarking on this journey is not merely an option; it is a necessity. The urgency of educational transformation is becoming increasingly visible against the backdrop of rapid technological advancements, particularly in artificial intelligence, and the emergence of new learning opportunities.

The demands of employers are evolving accordingly. Over the past decade, numerous reports have been commissioned and published, highlighting the

xviii Foreword II

shift in skill requirements for the workforce. The option to remain unchanged is quickly disappearing, and educators who neglect to explore and understand the nuances of learning autonomy are doing their students a significant disservice. By fostering collaborative communities of practice that champion self-direction, self-determination, and autonomy, educators can ensure that their students are well-equipped to thrive in the ever-changing landscape of the future, just as they are thriving as younger learners in the changed cultural context of a more innovative learning environment.

The diverse chapters within this anthology offer insightful glimpses into the ongoing processes of educational transformation across a variety of nations. Given the distinct cultural and contextual differences that exist, it is vital that we explore narratives from a broad spectrum of systems and cultures. This exploration is crucial if we are to identify and forge effective strategies for instigating and maintaining change in the educational landscape.

How might educators' proficiency in self-directed learning within more open and collaborative learning environments influence and transform the learning experience for their students? Mahat and Bradbeer astutely highlight the critical role of continual teacher inquiry as the cornerstone of educational transformation. If educators are to guide students toward acquiring the skills necessary for self-directed learning, they themselves must first embody the principles of self-directed learners. Teacher inquiry emerges as a natural and effective avenue for this endeavor – encouraging educators to reflect upon and refine their approaches to meet the evolving needs of their students, thus fostering a culture of curious, lifelong learners who take ownership of their educational journey, under the guidance of teachers who are continually reassessing and adapting to the learning requirements of their students.

The ensuing chapters shed light on exemplary and collaborative learning environments from around the world. Whether it is a government-run school in New Zealand, a private institution in Australia, a remote and disadvantaged educational setting in Malaysia, or a purpose-built educational facility in Italy, educators are raising remarkably similar questions and needing to address similar challenges.

There are many questions that need to be asked. How can they most effectively assess and respond to their students' needs? What modifications or adaptations could be made to enhance student agency? What strategies are effective for collaborating with colleagues to bring about change? What constitutes self-directed learning? What insights do curriculum developers need to gain from the realities of the classroom? How do contemporary learning environments differ fundamentally from the open-plan classrooms of previous

Foreword II xix

decades? What elements are essential for the flourishing of learning communities?

The articles in this anthology should not only motivate readers toward change but also an understanding that every context is different and will require a specific focus. This conversation is critical, especially in light of the tendency of government and educational bureaucracies to pursue short-term goals due to a fear of failure. Yet, it is precisely this capability to fail forward – to critically appraise and modify learning experiences – that stands out as an essential skill for the future. As we draw together the threads of inquiry, exploration, and collaboration detailed in these chapters, we are reminded that the journey toward educational transformation is both a collective and an individual endeavor. It challenges us to rethink, reimagine, and reinvigorate the educational landscape for the benefit of all learners, preparing them for a world that is continually evolving.

Dr Stephen Harris Learnlife, Sydney and Barcelona

ACKNOWIFDGMENTS

Writing and editing a book is no easy feat. We couldn't have done it without the support of many.

To our esteemed authors, we express our heartfelt gratitude for the dedication and commitment you've demonstrated in crafting your chapters. We understand that this endeavor has required considerable time and effort, often amid the demands of your primary roles in education – teaching, leading, and continual learning within school settings. Your willingness to share your expertise and insights, despite the myriad challenges inherent in your daily responsibilities, is truly commendable.

To our early readers and critical friends, we have valued your thinking and critique and know the book is all the better for it.

To John Hattie and Stephen Harris, the impact of your work in schools and school systems around the world are incredible. We are humbled by your generosity and kind words in providing a prelude to this manuscript.

To Kirsty Woods, Lydia Cutmore and the team at Emerald, thank you for your diligent approach, for supporting us through the process, and for the opportunity to see this idea through to fruition.

Finally, but definitely not the least, to all the educators in the teaching profession. Your passion for teaching and dedication to professional inquiry is second to none. Thank you for making learning fun and engaging in whatever environments you are in.

Chris and Marian