Chapter 1

Framing Assessment Today for the Future: Issues and Challenges

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Assessment—and its interface with curriculum, teaching and learning—has always been a significant component of classroom practice. Research has indicated that typical teachers spend between one-third and one-half of their class time engaged in one or another type of assessment or learning evaluation activity (Stiggins & Conklin, 1992). However, research has also expressed concern that the knowledge that teachers hold about assessment matters has been limited, with scant attention paid to this area in teacher-preparation programs (Christie et al., 1991; Louden et al., 2005; Matters, 2006).

Over the past decade, the significance of the roles of assessment and accountability in education has only increased. On the one hand, educators are developing ways to improve practical knowledge and application of assessment and development of assessment cultures among teachers through projects and policies such as Assessment for Learning (Black, Harrison, Lee, Marshall, & Wiliam, 2003; Black & Wiliam, 2004; Harlen, 2005; Kellis & Silvernail, 2002; National Research Council, 2001). On the other hand, governments and policy makers around the world have strengthened the role of externally mandated and reported assessment for accountability purposes.

This book examines educational assessment research, policy and practice in the rapidly changing world of the 21st century. Assessment not only continues to be a key activity of teachers, but also has become a key focus of educational research throughout the world, with the field often represented as contested. While traditional issues of validity and reliability continue to have high salience, there are a myriad of issues that are also pressing for educational assessment on the international scene. These include assessment, the law and accountability; the value of testing for international benchmarking and public reporting; assessment practices that take account of cultural and social diversity; assessment practices that go beyond traditional paper-and-pencil tests to include other modes; assessment and technological innovation; the matter of what counts as authentic assessment, especially in relation

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39 40 to professional and vocational education; and assessment issues relating to inclusion and disability.

Two major factors have informed this book. First, the book has arisen as a result of the previously mentioned clear and growing pressure from various stakeholders for education accountability. This has been reflected in increased measurement initiatives, including the prominence given to large-scale testing and reporting initiatives, and national introspection on outcomes from international comparative tests. Such measurement activities are not a stand-alone force, however, in the education and assessment fields. Also evident are strong moves in some countries to endorse alternative modes of assessment beyond traditional paper-and-pencil tests the assessment mode limits usually required in large-scale testing—and to develop teachers' assessment capabilities in their daily classroom practice as well as to serve accountability purposes. These radically different directions in research inevitably make competing demands on education researchers, as well as those involved in policy and practice. It is timely, therefore, for this book to bring together cutting-edge research and theoretical discussion from all perspectives and to open out and explore the ways forward for assessment in a new century characterised by an unprecedented change and growth in knowledge.

Thus, the second factor that informed the development of this book is our chosen approach. In previous research and publications, we have applied a multidisciplinary and multitheoretical approach in our work (Cumming & Wyatt-Smith, 2001). A multitheoretical approach to education research has also been advocated by others (for example, Beach, Green, Kamil, & Shanahan, 1991, and more recently, Green, Camilli, & Elmore, 2006). This book aims to be encompassing of different disciplines that inform the methodologies and approaches underlying different theoretical understandings about, and practices in, assessment.

The field of assessment research needs to move beyond tensions posited as diametrically opposed in ways that are unhelpful for improving practice or assisting the classroom practitioner. Notions of assessment for measurement and assessment for learning work, in part, to maintain a long-standing perceived disparity between objectivity and subjectivity. We consider it important to move forward. The field of assessment can now be characterised in terms of the myriad of 21st-century issues that confront it and that call for public and scholarly scrutiny and discussion. The authors in this book situate assessment in differing contexts, providing a research, policy and practice nexus for assessment in the 21st century, with impacts of changes, such as technology, inclusive practices, cultural diversity and learning for the workplace, as well as accountability-driven reform.

What the Authors Were Asked to Do

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In order to shape this book and meet our commitment to readers to provide a multitheoretical and multidisciplinary approach to assessment, we asked our authors to provide chapters with a difference. Each chapter, and its respective author/s,

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frames its own space and presents a distinctive 'voice' in the book. While in our initial framing we envisaged the dimensions of assessment issues of interest for the 21st century and identified potential authors with expertise in each dimension, the authors were free to amend our suggested topic or to offer alternative topics of interest to them. We knew that the standing of each of our authors in their field would ensure interesting and provocative commentary for our readers. However, each chapter becomes a self-contained exposition on assessment. We did not just ask authors to contribute in their areas of special interest, but we also asked authors to provide brief overviews to inform the reader about the theoretical and methodological frameworks underpinning their writing. This is contained within each chapter itself in some writings, or as an appendix in others. Further, our authors were asked to provide their own definitions for key terms and concepts in their chapters, again either within the chapters or in an attached glossary. Thus, throughout this book you may find definitions of terms across a range of chapters that may or may not be congruent. We consider these contextual definitions of assessment concepts valuable in demonstrating the social and cultural meanings we bring to bear on our research work. In this book, particular theories are not prioritised and meanings are not singular in direction. Thus, we hope the book is informative for readers, not only for the breadth of discussion on assessment issues for the 21st century, but also for the demonstration of different ways of knowing, learning and 'doing' assessment.

In the next part of this chapter, we provide an overview of the contents of the book as a guide to you as the reader. We highlight the main focuses of the authors and synthesise very briefly the many complex and exciting ideas embedded in each chapter. We endeavour to provide some sense of orientation of the authors in each chapter, but leave to you a fulsome engagement with, and examination of, the theoretical and methodological framings of each. We also leave to your own discovery the excitement and depth of the insights of the authors and their conclusions for future directions.

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The Contributions of the Authors

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First, we express our thanks to Patricia Broadfootfor providing the Preface to this book. Broadfoot provides a historical and sociocultural overview of assessment that serves as a constant—dare we say—'benchmark' for the practices we see around us in education today. We understand that in strongly competitive societies in the past, examinations were used to stratify social class and opportunity. What is harder to understand in a world in which equitable opportunity and education for all are the espoused goals of our nations, we appear to perpetuate systems that promote competition, failure and success, especially when such success appears, in part at least, to reflect the social capital of the student. Broadfoot examines the various roles for assessment in our 21st-century world, defining four dimensions that we should consider to compare the present with the past: 'purpose, mode, content and organisation' (see page x). She reminds us that in our post-modern construction

of assessment at the beginning of the 21st century, we are having doubts about the perfection of science as a measure of student learning. The direction for the new century is for more 'humanist' and individualised focuses on assessment and student-learning enhancement. New directions will need to consider the diversity of learners and learning, of what is to be learned and how it can be demonstrated. Broadfoot posits a new scenario of portfolios, transportability and tailored assessment. We believe that the considerations of our authors provide the means to move us forward in the pursuit of a new paradigm for assessment for the remainder of the 21st century.

The chapters in this book have been characterised under three main groupings, although this is not to imply similarity or singularity of thoughts within the chapters. However, as the authors' perspectives emerged, we identified three major concerns. The first four chapters—by Gunther Kress; Randy Bennett and Drew Gitomer; Glenn Finger and Romina Jamieson-Proctor; and Claire Wyatt-Smith and Stephanie Gunn—explore the new dimensions for assessment in the 21st century that are having or will have an impact on assessment. These include the impacts of globalisation, new technologies and new understandings of the role and significance of frameworks and communication in enactments of educational assessment. We characterise these chapters as dealing with issues of creativity, innovation, new skills and capabilities and changing communication practices.

Gunther Kress starts his discussion with the proposition that 'dealing with learning and assessment invokes theories of communication and meaning' (see page x). He challenges readers to consider how to recognise learning and the data or evidence that would count, showing that learning has occurred. Through his probing of these two issues, Kress focuses on the notions of learning in specific contexts and how the making of meaning, sign and concept relate to context.

Working from the perspective of a semiotic theory of learning, Kress presents the case for new principles of recognition of learning that challenge the traditional dominance of the linguistic modes of speech and writing. His chapter calls into question how these modes have been given pre-eminence and provokes a conscious attempt at recognising meaning-making and learning in all modes. The powerful message from Kress is that 'what is not recognised will not and cannot be assessed', leading to what he refers to as 'severe misrecognition of learners' capacities and actions' (see page x).

Any discussion of assessment for the future must necessarily encompass the issue of technology. The relationship between technology and assessment can have many forms: technology as a tool to undertake traditional forms of assessment; the interplay of the impact of technology on assessment; assessment of technology in education; and new views as to how assessment is shaped when technology is assumed as a 21st-century focus. Randy Bennett and Drew Gitomer provide an exhilarating perspective of the way in which assessment should be construed in a technologically driven world—the world that is already around us in the 21st century. Bennett and Gitomer link technological advances to advances in understanding individuals and the nature of learning. They challenge current accountability agendas to be more informed and informing. Their challenge involves

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the incorporation of cognitive science developments, developments in psychometric measurement approaches and technological developments that allow presentation of 'richer assessment tasks' with some automation of 'scoring' (see page x). Bennett and Gitomer commence by contextualising their thoughts in the United States' educational context, concerns about quality and equality of educational experiences for all students and the limited educational value of consequent accountability agendas for student improvement. However, as we note for other chapters, the United States' experiences and policy preoccupations, rightly or wrongly, are not theirs alone. Bennett and Gitomer challenge themselves to create a better accountability system that is modern, informed by good assessment practices and educationally of value, allowing monitoring of student progress to inform and enhance student learning. Their proposed solution encompasses the themes that emerged independently from so many of our authors—concerns that assessment should be able to identify individual strengths and weaknesses with customised reports for different audiences, should be based in some theory of learning and development, should provide authentic and meaningful engagement for students, should recognise the social and cultural nature of learning and knowledge and should be supported by professional development and assessment-cued teachers. It is in the final enactment of their solution that technology becomes a central support.

Glenn Finger and Romina Jamieson-Proctor also examine assessment through the lens of technology—not just the application of technology as a form of assessment, but also the issues relating to assessment of learning in the area of information and communications technologies (ICTs), the interaction of assessment forms and the nature of ICT knowledge. Agreeing with Bennett and Gitomer, and Finger and Jamieson-Proctor, we take as given that technology and technological developments will be major influences on the directions that education and assessment will take in the 21st century. If they are not, then the outcome will be an education of students constructed by adults that is an anachronism in the modern world. The technological changes to come cannot be envisaged, just as the technological resources available to children at this time are beyond the dreams of the mid-20th century. However, understanding the nature of knowledge in ICT contexts and the import for teaching, learning and assessment are relatively new educational endeavours. Finger and Jamieson-Proctor explore this issue for teachers from the perspective of TPCK technology pedagogical content knowledge—building on the pedagogical theories of Shulman (1987). They provide examples of ICT use for assessment, such as development of ePortfolios for students. As this chapter demonstrates, the opportunities are limited only by our own capacity to engage with the technologies afforded. Finger and Jamieson-Proctor argue that it is important for assessment schema to go beyond a focus on the knowledge that students have of technologies to 'how students are able to use ICT for learning in a range of curriculum contexts' and how such use facilitates the 'development of creative, complex and critical thinking' (page x). Finger and Jamieson-Proctor provide a comprehensive examination of the current state of the art in learning with, and assessment of, ICT and the many tools already available to teachers and emerging innovations. Most importantly, they identify that the challenge for the future will be teachers maintaining ICT proficiency at the same

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rate as students and the need for educators to have 'a strong understanding of how students are learning in the 21st century' (page x).

Claire Wyatt-Smith and Stephanie Gunn explore the need for theoretical underpinnings to assessment in the 21st century, given the range of purposes and activities being implemented. They argue that an approach to assessment as 'meaning-making' (Delandshere & Petrosky, 1998) provides a way to examine and shape assessment purposes and practices. Wyatt-Smith and Gunn support their theoretical propositions with empirical evidence collected during research conducted in Queensland, Australia. The assessment system of Queensland for accreditation in the senior years of schooling, using teacher judgment, has been internationally known for 30 years. Wyatt-Smith and Gunn explore enactments of such approaches in the earlier years of schooling and explore the ways in which such judgments are made: the dynamics between social contexts and teacher expectations in shaping judgments and the contexts of increasing external accountability demands and influence on classroom practices. While the discussion is set in Queensland and Australia, these contexts have clear international generalisability. Drawing on arguments about the import of these for issues of student equity and the need to address the diversity of students, Wyatt-Smith and Gunn emphasise the need for evidence as an underpinning essential element in assessment. However, such evidence itself is part of the sociocultural context of educational enactments. Wyatt-Smith and Gunn elaborate four 'lenses' to explore assessment as meaning-making, applying them as a framework to explore the empirical evidence from their research. As the exploration unfolds, implications not only for assessment theory and practice but also for teacher professionalism and assessment cultures emerge. This chapter shows that as we have moved into the 21st century with enhanced expectations of the role of assessment to improve learning, we need to move further with our expectations of our own understandings of the theory of assessment itself.

Another broad theme identified by the authors in this book was the consideration of a range of assessment issues we characterise as 'Building social capital: Difference, diversity and social inclusion'. An underlying theme in these chapters, by Caroline Gipps and Gordon Stobart, Susan Brookhart, Deb Keen and Michael Arthur-Kelly, and Joy Cumming, is the effect of assessment on students' demonstration of achievement and the interaction of assessment and student. Again, these concerns have been examined from a range of perspectives: equity issues for individual students in the pursuit of best educational opportunities for all; equity issues through the examination of available national and international standardised test data; equity issues and new ways of enhancing assessment practices with students with disabilities; and assessment and equity issues as they emerge from law.

Caroline Gipps and Gordon Stobart address the issue of fairness in assessment, moving from technical definitions of 'fairness' to conceptions of fairness that consider the contexts of assessment and social and cultural issues—assessment as a 'socially embedded activity'. Most broadly, they argue that fairness needs to consider access and opportunity, not just equality of scores or achievement outcomes. Equal outcomes may be fair to one group of students but not to another, and unequal outcomes may be 'fair and just' for all (see page x). Gipps and Stobart elaborate the

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theme of the origins of assessment discussed by Broadfoot in the 'Preface', the emergence of assessment in society for selection purposes, within a framework at the time considered fair and promoting merit. The influence of these origins on assessment development and the emergence of the psychometric paradigm through the 20th century are considered in parallel with the social assumptions that underpin these developments and the social capital that enables performance. While the development of the 'assessment' paradigm was seen as an educational response to the measurement paradigm development of the 20th century, in itself this development is not socially or culturally neutral. Gipps and Stobart posit that fairness from a sociocultural perspective can only be achieved through new constructions of validity. Through three examples from different social, cultural and assessment contexts, the authors demonstrate that fairness and equity cannot be assumed, but must be carefully monitored in any assessment environment. Most importantly, they see the pursuit of fairness in assessment, and opportunity for the individual, as a major and ongoing challenge for educational assessment. We need to continue to make apparent biases and assumptions and to maintain vigilance and the 'political will' if we value a goal of fairness for all.

Susan Brookhart provides a comprehensive analysis of international and national assessment data and research study outcomes across many dimensions to examine assessment equity and gender effects. Necessarily, her analyses are based on the standardised measures used in, and outcomes from, such studies, with the types of standardised assessments ranging from multiple-choice formats to extended performance assessments. She investigates findings for a range of curricula, including English, mathematics and science, and for different student age groups. However, Brookhart's discussion is not just to identify whether different achievement outcomes can be related to the gender of a student, but also to examine the nature of any differences, whether differences are due to an interaction between the gender of a student and an assessment process (the answer appears to be 'no') and how any such differences are interpreted by educators. Her concern is with what students can do and the pedagogical implications for differences demonstrated by achievement studies. Brookhart's initial analyses show that while consistent effects are found for reading, favouring girls over boys, the effects for mathematics are less clear and consistent and are likely to be curriculum and pedagogy related. Somewhat similar outcomes are found for other areas, particularly when results are analysed in conjunction with other demographic data. There appears to be a clear interaction between the construct being assessed, the groups of students and gender outcomes. Brookhart notes that where differences are found, individual variation can be more significant: 'individual boys and girls, and individual schools, may be very different from the average' (page x). Her concluding discussion regarding future directions to ensure equity in assessment considers the importance of individual items. However, her final thoughts and recommendations offer a different challenge to assessment research, calling for more understanding of 'economic and cultural patterns in achievement, which may be more amenable to change' (page x).

Deborah Keen and Michael Arthur-Kelly consider the implications of assessment for students who have always had specific attention in education research: students

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with disability. However, their discussion shifts the discourse from a deficit model of limited expectations for these students to an empowering model in order to chart progress through acts of assessment tied closely and intrinsically to instruction and goal setting. Such assessment is occurring in a context in which change is 'incremental', but where identification of effective and ineffective instruction and the level of intensity of instruction needed for each individual student are critical. Keen and Arthur-Kelly continue the theme of our work that all individuals are able to learn and are entitled to learning opportunities. Their focus on student engagement with learning, and ways to assess such engagement, brings a new dimension to considerations of assessment theory from mainstream perspectives. Keen and Arthur-Kelly support their argument by drawing on empirical data from research with students with autistic spectrum disorder. They describe curriculum-based assessment for students with disability, drawing on research originating in the United States. They state that '[i]t is now generally agreed that assessment and intervention are best focused on maximising the individual learning outcomes achieved by the student, from a strengths perspective' (page x). Keen and Arthur-Kelly pose 'big' questions in their assessment profiles, including the 'best support' for students and life-long learning, with goals including 'curiosity, increased independence...and self-actualisation' (page x) and the intensive curriculum planning necessary to work with students with disability. Their chapter provides positive and challenging directions for the education and assessment of students with disability. We ponder whether their principles apply only to students with disability or whether they represent ideal frameworks for the education of all students.

In the final chapter in this section of the book, examining issues of fairness, cultural diversity and social capital, Joy Cumming explores assessment issues from the perspective of education law. Education law, including legal challenges relating to assessment, is already a major area of study in the United States, but is only emerging in case law in England and is relatively limited in Australia and many other nations. However, individual students, teachers and parents have a growing expectation of their rights and empowerment as individuals, whether or not such rights are indeed present in a nation's laws. When administrative recourse to right-perceived wrongs fails, people are turning to the courts for justice. In this chapter, Cumming examines the status of legal challenges in assessments, the frameworks in which such challenges can occur and the burdens that must be met by those who feel they are wronged—the plaintiffs—in order to succeed in court. The area of education law is not recognised in its own right in the law courts, and challenges must be won or lost within the fields that have emerged from other contexts such as administration law, discrimination law or negligence law. Cumming's analysis shows that the construction of equity in law for an individual is not necessarily of the same meaning that educators would ascribe. Indeed, the courts may be perceived as harsh in their resolution of educational matters that clearly have had considerable negative impact on the lives and opportunities of individuals. Nevertheless, cases raising a range of assessment matters have been successful, and precedents for much broader future actions around educational assessment matters have been established through key cases in England, such as Phelps (2001). Cumming considers the assessment areas

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Our final characterisation of the chapters in this book reflects the impact of specific contexts on assessment outcomes, whether drawing on geographical, political, paradigmatic or policy frameworks.

Patrick Griffin has explored the ways in which schools and teachers can use the array of standardised test data available in Australia, and in schools in other nations, for formative purposes to reform teaching and enhance student learning. Drawing on psychometric models of assessment, including item-response modelling, Griffin follows the work developed at the Australian Council for Educational Research¹ in the use of developmental scales to identify the quality and developmental progress of a student's achievement against the item demands and constructs of such tests. Griffin notes that a developmental approach in interpreting data allows teachers to scaffold learning for individual students and to create 'personalised and clinical approaches to intervention' (page x). When standardised tests are developed using a criterion-referenced approach, the developmental scales and student performance against criteria can be identified. In his chapter, Griffin provides guidelines on ways that teachers can map content and examine student performance and progress. He explores the resources that teachers need in order to undertake intervention and plan future instruction with individual students, suggesting enhanced communication among teachers as an active form of professional development. Griffin's chapter includes description of a successful school enactment of the principles that he proposes. He concludes by considering the import of his arguments, not only for teacher professional development but also for teacher education. Griffin's chapter commences with a focus on individualised use of student assessment data for formative purposes to improve learning, but progresses to a systemic examination of the use of data for change and pedagogical enhancement. Given the maintained focus of governments on educational accountability, it is likely that systemic assessment data will continue to grow in Australia and elsewhere. It, therefore, is sensible to explore how this can be used most effectively for the purposes for which it was intended.

Gabrielle Matters also examines the way that teachers, and schools, can use a range of assessment data to improve instruction and student learning. Her focus, in the main, is similar to that of Griffin: the standardised-test information available to schools from external accountability regimes. However, Matters argues that considerable detailed information is available to schools and teachers within such school data and suggests ways in which the interaction between students and assessments should be scrutinised to examine and improve student performance. She further argues that future developments of assessments should ensure that information at such a level is of a quality that it can serve these functions. One key to quality for Matters is the care taken in the identification of the construct, the 'conceptual

1 In 1992, the National Council for Measurement in Education g

¹ In 1992, the National Council for Measurement in Education gave ACER its Annual Award for 'outstanding dissemination of educational measurement concepts to the public' for this work.

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framework' (page x) that is being assessed and against which student progress is being measured. She explores the value of each individual item within an assessment context, and indeed the interaction of the item and the individual student within the specific context. Drawing on a learning model incorporating 'presage-processproduct', Matters posits that the individual student has as much a 'causally central role in the learning process' as teachers and schools, and hence in the assessment process (page x). Both Matters and Brookhart have noted that individuals have varied backgrounds and experiences and are the product of 'nature' and 'nurture'. As Wyatt-Smith and Gunn also noted, this source of difference, however, should not be used to justify or explain different outcomes or to remove responsibility from educators for learning outcomes for each student. Examination of the nature of an assessment item and an individual student's responsiveness to the item rather than just correctness of response can provide insight into the student's development. Difficulty of an item is not just a statistical description but also represents a different interaction for each student, according to context. Examination of items and responses can highlight misconceptions and lead to improved instruction. As Matters notes, such examination may even reveal some flaws in the assessment items and tests themselves. Her overall conclusions reiterate her call for more focus on development of quality assessments, in any form, and much more focus on using available assessment information for learning improvement.

Sverre Tveit brings the perspective of a student to educational assessment issues, albeit the perspective of a student now engaged in graduate studies. Tveit's account of the Norwegian assessment experience of the past two decades provides an insight into the impact of differing agendas on education experiences, goals and assessment practices. Tveit was a member of the School-Student Union of Norway at a time when the government decided to implement major national changes to assessment. The Norwegian government's action was in response to perceived national 'failure' on international tests such as PISA, considering the high expenditure of the nation on education. Tveit provides an overview of pedagogical development in Norway, drawing on a range of policy documents as well as personal experience. He describes the assessment regimes of Norway at local and national levels and the various attempted changes by the government—in conjunction with the opposition demonstrated by students, educators, assessment experts and politicians in opposition. His chapter provides a very clear exposition of the impact of external factors on national practice and the political roles that education and assessment play across the world today. Tveit's overview demonstrates a system exhibiting local authority and national accountability of teachers in a way uncommon to most other nations, with the concept of official, random examinations for students as a monitor of overall schooling effectiveness and student preparedness. Most importantly, Tveit examines the system of assessment in Norway with the critical eye of a student, seeking evidence for research-based underpinning of practice and teacher professional development, and consistency in goals and purposes. He makes a number of propositions for future reform of assessment in Norway. While Tveit's exploration of assessment is set in a singular assessment culture, his descriptions of theory, practice and issues will resonate throughout the international community.

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The assessment context for the chapter by Ann Kelly is vocational education. She adopts a situated approach and calls for an extension to current assessment of skills development. Worldwide, vocational assessment has been moving to a competencybased approach. The competences reflect identified component skills, both lower order and higher order, in the development of guild knowledge (see page x). Thus, the expectation underpinning this approach was that apprenticeships could become part of formal educational contexts, in the same way that general education became institutionalised at the commencement of the 20th century, to cope with the needed growth in education for the Industrial Revolution. Aspects of the apprenticeship could be identified and confirmed. A further advantage envisaged for formal vocational education and a competence approach was the capacity to allow apprentices to proceed at their own learning and developmental paces. However, the formalisation of apprenticeships and vocational education into competences has left many considering that the essence of guild knowledge is missing—competences can become superficial rather than rich descriptions of a skill base (page x). In her chapter, Kelly has unpacked this issue and explored a way in which the richness of skills development can be explored, using the methodology of conversational analysis to examine authentic enactment of an area of communication competences. Such an analysis allows the identification and assessment of the tacit knowledges that underpin performance. While this analysis provides a telling instance of elaborated assessment in a vocational context, it also demonstrates central themes that emerge from the authors of this book: assessment is most effective when the individual is targeted; individual performance needs elaboration in order to be effective, making high demand on assessment processes; and the situated context of assessment interacts with the performance.

Standards as conceptual identities emerge in the discussions of a number of our authors. Within each chapter, the conceptual identity each author attributes to 'standards' should emerge for the reader. In his chapter, Graham Maxwell provides a theoretical and policy-based consideration of the situated constructions of 'standards' commonly being used around the world and the many contexts that influence such construction of concepts. Maxwell provides an analytical framework, elaborating four dimensions that can be considered to explore the contextual use of a concept of standards: type, focus, underlying characteristic or construct and purpose. Maxwell shows that cultural contexts provide very different interpretations for standards, from conceptions of standards as a form of curriculum framework to conceptions of standards as indicators of levels of performance. Within the latter, many different meanings are still visible in practice. He notes the constant tension between descriptions of performance against standards or others (notionally criterion-referenced and normative standards) despite the basis of both in guild knowledge. The one has always informed the other—we only understand perfection by understanding what is not perfection, and we need a model as a comparator. Overall, Maxwell exhorts educators to identify and clarify the meanings we ascribe to our constructions of a 'standard' to enable common conversations about intentions and to clarify the social and cultural contexts that frame these conversations. Throughout his explorations of these frameworks and meanings, Maxwell keeps

a central imperative on their impact for the individual learner, working from the central 'purpose of education [which] is to enable the advancement of the personal knowledge and capabilities of each student to the fullest extent possible and to prepare them for further learning and development throughout their life' (page x). It is Maxwell who notes that the children entering school today can expect to live during most of the 21st century and many will enter the 22nd century.

In working through the chapters in the book and exploring the ideas presented by our authors, readers will notice commonalities and differences, which we now consider

Assessment Commonalities in Diversity

There can be no doubt that education in this century is a dynamic and exciting discipline. Students and teachers are engaging in learning dialogues of unprecedented complexity in recognition of changing times, changing needs, changing social groupings and, not least, changing technology. Educational policy is seen as a significant political area, with resultant high focus on educational content and delivery. Each of these dimensions of current educational contexts has import for educational assessment, ensuring that the traditional concept of 'testing' is to modern educational practice as the quill is to textual recording.

In this book, we have drawn together the voices of international experts in educational assessment, talking about the issues with which they are concerned and providing opportunity to identify possible directions for future action. Even though the book is intended to be comprehensive, it can only touch on the issues and practices engaging educational assessment. What we hope we have portrayed successfully are the ongoing and increasing complexity and significance of the role of good educational assessment in modern education practice and the challenges that present in attaining such a goal.

The 21st century has commenced with high expectations, not just for student outcomes but also for the professionalism of teachers and authorities—of clarity of purpose, approach and language, of recognition of different theoretical framings of assessment and, not least, of an overall care for the educational opportunities for all students.

The authors in this book have written from a range of different theoretical and methodological framings of assessment, reflecting what are often referred to as different paradigms.

Beyond points of difference, however, there are several calls that readers will hear resonating across the chapters. We refer deliberately to these as 'calls', in that they invite action in the fields of research, policy and practice. While readers will no doubt hear such calls differently, in this chapter we offer our framing—our hearing—of these. Throughout the chapters, a recurring call is for assessment to be relevant to the needs of the individual learner, in order to improve their educational opportunities and life outcomes and to provide the individual learner the opportunity

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to voice their needs. This goes beyond the long-standing stance for learner-centred approaches to a recognition of learner agency and the active contributions of the learner to inform how learning, and therefore assessment, should occur. The gravity of this call is to the fore when there is also the clear connection between educational, and more specifically, assessment opportunities and life opportunities. All too often in the past, assessment has worked to limit, even prescribe, such opportunities, inevitably impacting on what and how individuals achieve in social, workplace and civic spheres.

An expansion on this is the need to go beyond policies of inclusion (which can focus on stereotypical and group identification drawing on a deficit perspective) to develop policies that recognise diversity and the complexity of the individual learner. Increasingly, teachers report that one of their main challenges in classroom practice is how to provide responsive teaching and assessment to diverse learners. Many of our authors recognised such challenges and demonstrated that assessment needs to chart student learning from the perspective of an underpinning theory of learning progress and development—whether such a theory is based on cognitive science, psychometric analyses, curriculum theories or combinations of these. From the standpoint of an underpinning theory of learning progress and development, the purposes of standards can be moved away from being a 'standardising' influence. More specifically, they need to be rethought and clearly defined in terms of their role in supporting learners and teachers in progressing learning and in understanding differences across learning development.

There is also the strong call in the chapters for 'salient' or revealing evidence to support such charting and assessment of learning development, whether from formal or informal bases. Constant, therefore, is the need for sources of information and documentation. Related to this is the recurring challenge for assessment to take seriously the issues of equity by unpacking how the judgments of progress are being made. At play here are critical matters of the types of information that count as evidence and the ways in which the evidence is treated. Further, the chapters open spaces for different niche approaches to assessment and highlight the need for assessment researchers to theorise assessment practices in greater depth, elaborating and clarifying contexts and assumptions. This is particularly to the fore, for example, in how our chapters have conscientiously included commentary on the impact of technology on assessment, explored from various dimensions. What differentiates the 20th century from the beginning of the 21st century is the exponential and unbelievable development of new methods of communication, representing knowledge, and making knowledge available. Within this framework of the developments of the past 30 years—from clunky computer terminals with limited capacity to hand-held devices more powerful than computers of a decade ago and from a paper-based society to the development of the World Wide Web and the Internet in the past two decades—change in practices in education and assessment is inevitable.

Last but not least, there is a call for opportunities to enhance the professional development of teachers. This development is taken to include the repertoires of assessment practices that teachers rely on, especially in relation to student diversity and inclusion as well as teachers' own knowledge of what counts as quality

assessment and ways to promote student learning. This, of course, becomes critical, given the intensified policy interest in accountability of school decision making and transparency in how judgements, including grading decisions, are arrived at.

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Looking Backwards, Looking Forwards: Developing an Interactionist Perspective

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A decade ago, Delandshere & Petrosky (1998) reported how, in the then recent past, there had been 'a shift in the rhetoric (if not yet the practice) of assessment' (p. 15). They went on to identify how, by 1998, 'much more emphasis [had] been placed on the support of learning and teaching than on the sorting and ranking of individuals' (p. 15). This observation informed their characterisation of how, at that time, 'the field of assessment [was] challenged by many conflicting purposes that create interesting problems', referring in particular to the challenges associated with how 'performance assessment systems are implemented for their potential impact on instruction and, more generally, as a way to promote systemic change in schools' (p. 15).

The chapters in this book provide clear evidence of how the field of assessment, and further, the practice of assessment, has strengthened the focus on how assessment can support learning and teaching. Across the chapters, the concentration on assessment to improve the quality of learning is to the fore. Also clear is a shift in rhetoric away from 'the problems' of assessment through to opportunities for rethinking assessment. The chapters provide frames for seeing how such rethinking is occurring in relation to the changing contexts of education, developments in learning theory and different ways of thinking about the nature of knowledge itself.

Further, the book as a whole presents new insights into the nature of assessment that go beyond the notion of assessment as evidence-based practice. There is recognition of how assessment is contextualised practice, linking in complex ways to social, cultural and policy/political contexts. This opens the space for a new appreciation of the forces at play in shaping how assessment occurs and should occur. In regard to the latter, there are, of course, the forces that are tied to ongoing and rapid changes in ICTs, bringing with them new interaction possibilities, as well as new ways to use, represent and create knowledge.

It might be interesting for readers to revisit the idea, introduced earlier, that while we, as editors, made choices about the writers who would be invited to contribute chapters, taking account of what we knew of previous writings, we were not seeking to give greater prominence to any particular theoretical tradition or approach in the field of assessment. Therefore, on reflection, we know that different paradigms in assessment research focus on measurement versus assessment paradigms, with the former seen as having psychological and psychometric bases and the latter being more socially constructivist based. The authors in this collection show, however, that such characterisations may be too simplistic for assessment directions for the 21st century. Instead, there is emerging a new appreciation of how theoretical and

disciplinary stances, and contexts and modes for enacting assessment, are fundamentally interactionist. Beyond this, there are some signs of movement towards a multitheoretical assessment approach. Readers will observe, for example, that writers working within the psychometric paradigms explored and considered sociocultural contexts, while, overall, the different assessment paradigms recognised the need for theoretical progressions of learning. Such signs hold promise for paradigmatic change, whereby assessment practices incorporate technological change and offer both new performance and new learning contexts that take account of new student cohorts.

We hope that you as readers find this book a valuable addition to your library on assessment. We encourage you to delve into the chapters and to make your own reflections on the influence of the different theoretical and methodological frameworks of the authors on their work. We invite you to consider whether the frameworks are necessarily incompatible or whether they can all be perceived to contribute to our understanding of learners and learning and to contribute to the research, policy and practice imperatives that have identified the significant role that assessment plays in education at this point in the 21st century.

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