Human Diversity, Assessment in Education and the Achievement of Excellence and Equity

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INTRODUCTION

In the following pages, several topics will be addressed that progressively lead to the conclusions reached in this paper’s introduction. It will be important initially to provide the backdrop, that assessment is a broad ranging conception, which encompasses a host of differing practices, and has served several different functions in our society at large, and in the field of education in particular. Most strikingly today, we witness an especial stress in education placed on what is called high stakes testing. Such a way of doing assessment speaks to the role that large-scale educational assessments currently play in ascertaining the quality of student learning and in turn the quality of the education afforded to students. But most importantly, the obtained results have major implications for those tested and hold consequences for schools and their educational stakeholders as well. It will then be crucial to place the practice of assessment in historical context and show that while assessment historically was conceived to provide greater opportunities for persons from diverse backgrounds, paradoxically, in terms of present day understanding of diversity in social backgrounds, assessment practices can easily serve an exclusionary purpose for individuals whose experiences are construed as outside the mainstream of our society.

The presentation then moves to document what is largely known, that certain demographics and racial/ethnic minority groups fare relatively poorly on virtually all educational assessment measures, the obtained pattern of findings defy conventional explanations. Thus the remedies that have been typically proffered for such low performance need to be thoughtfully reconsidered. In light of the need for explanatory reconsiderations, given that high stakes testing is now used in education as a key driver for increasing school and student achievement, and more broadly for pursuing school reform, important questions should be posed and
addressed. Therefore the discussion will then lead to raising and then answering the following questions: “Can we test our way to greater opportunities for diverse students and to promote school reform?” “Should we?” A case will also be made here for focusing not just on assessment of learning but assessment for learning. From here, arguments will be made for expanding the reach of assessments to include not just assessments of students, but assessments of educational contexts; and a case will be made for expanding issues of validity to include matters of consequence and interpretation of assessment results. A case will also be made for converging educational assessments with a redirected purpose of formal education in our society to emphasize more so on human capacity building rather than sorting and selecting. The paper will conclude with a culminating summary of the arguments and issues that have been raised, and with the providing of a framework for more proactively addressing issues of race, culture, excellence, equity and assessment in the American social order.

MULTIPLE FUNCTIONS OF ASSESSMENT AND THE CURRENT PREOCCUPATION IN EDUCATION WITH HIGH STAKES TESTING

Over the course of the 20th century, and up to the present day, assessment has played a major role in American schooling and even in how our society has come to understand human ability and capacity. We have assessment for discerning competence or qualifications; for purposes of selection; for sorting or screening of candidates, and for certification (Gipps, 1999; Madaus, Raczek, and Clarke, 1997). Some argue that assessment has served the purpose of “controlling” examinees access to further levels of education or professional positions (Gipps, 1999). We also have assessment serving a diagnostic function, as well as an academic placement function. In recent years assessment has been a tool of
accountability in educational settings, and has been used in the service of school reform (Linn, 2000; Shepard, 2000). In this regard, it has gotten increasing attention as an index of student learning. It is argued that assessments used in this way are controlling what is taught and even how it’s taught in schools, and are placing accountability parameters on those professionals who are responsible for student learning. Related, there is also a present domination in assessment with preparing students for college and/or the demands of the 21st century labor market. This latter point is now looming large as another major reason for the importance of national, high stakes assessments (Phillips and Wong, 2010). Assessment indeed is now used as the basis for discerning comparative performances of students, classrooms, teachers, districts, states, and even nations (Madaus, Raczek, and Clarke, 1997; NRC, 2001). Shepard (2000) observed that the impact of high stakes assessments can be seen in that routine classroom practices now emulate what transpires during standardized testing; and in how the preference of policymakers and the public at large is for evidence of school and schooling quality to be based on standardization and quantification. Moreover, recent attention has been given not just to assessment of learning but assessment for learning as well (Stiggins, 2007). Assessment for learning implicates classroom-based assessments, and it is being argued that greater attention should be given to these forms of assessment in the future.

Given what is presented above, it may not be surprising that some would argue assessments have served a hegemonic function with regard to extant educational practice. As Connell has commented... “In Western school systems, and Western-style school systems elsewhere in the world, a particular assessment regime is hegemonic. This means both that it is culturally dominant, connected with the society’s central structure of power; and that it functions to maintain the social power and prestige of dominant groups” (Connell, 1992).
However, in recent years, others assert that assessment should play an equity function. For example in 2001, the authors of a National Academy of Sciences report on student assessment assert for example that large scale assessments should principally serve the purpose of equity, so that greater numbers of children will be more successful in school and learn and retain greater amounts of information and knowledge. Assessments they say, especially standardized forms, must be better able to chronicle students' "accomplishments" and the strides they are making in terms of learning. Therefore, the influence of psychometrics is most apparent in the widespread use of standardized tests to monitor progress of individuals and groups and to support consequential decisions about them (Heubert & Hauser, 1999).

What is gained via such a process is prioritized over other forms of evidence (Porter, 1995). It has been observed that this increased preoccupation with assessment as a vehicle for gauging academic progress in our educational activities and institutions was initially fueled by the influential Nation at Risk (1983) report. So nowadays, there is less concern about if we should assess and more on what and how we should assess. As educational accountability has increased over the years and decades, so has a focus on testing and assessment. And thus increased emphasis in recent years has been put on assessment of learning.

THE PARADOX OF THE HISTORICAL FUNTIONS OF ASSESSMENT WITH PRESENT SOCIOCULTURAL REALITIES OF AMERICAN SOCIETY

Testing and assessment have a very long history in human societies. The Chinese developed a civil service exam as far back as the third century BC, so that "men of merit" could be selected for the work to be accomplished and minimize the use of patronage for job selection (Madaus, Raczek, and Clarke, 1997). In Europe, similar efforts emerged across the 17th to the 19th centuries for
similar reasons and expressly to mitigate the influences of family history and birth, wealth, and corruption, with regard to gaining governmental positions and gaining access to other middle class professions, including the medical profession. In America in the 20th century, the College Board’s SAT examination allowed for entry into prestigious colleges for students who did not come from privileged backgrounds or presumably favored ethnic groups. Hence such assessments over the course of time allowed for access to opportunities for individuals from diverse backgrounds (Gipps, 1999). From one angle, these assessments did pursue matters of equity across diverse social groups as a purpose for their administration in terms of potentially providing positive consequences for “diverse” test takers. Yet, regardless of intentions, the exams still served sorting, selection and certification functions.

In more recent years, especially over the latter half of the 20th century, American society has been embroiled in a protracted reshaping ushered in by the struggle to protect and promote the social and civil rights of designated minority populations. Among the consequences has been a push for affirmative action, a push for the reduction, indeed the elimination of discrimination based on social status, demography, ethnicity, race, and gender, against the backdrop of the awareness that America is becoming an increasingly multiracial and multicultural society. In the wake of such developments, issues of equity and fairness in assessment have gained more pronounced importance. This then is a social justice approach. In this regard, it is not seen as sufficient that groups or individuals from differing backgrounds have the opportunity to take a given assessment, but the results from these examinations should also reflect equity and fairness, in terms of the distribution of the obtained outcomes. When the obtained results are not evenly distributed, this then for many raises the specter of discrimination inherent in the assessments themselves. This argument gains fuel when the results yield relatively
lower performance from certain groups who have been historically disenfranchised in the American social order. Therefore, whatever is the context for eventual participation, if for example proportionately fewer people from certain identified groups are not selected for participation in those settings, then the tests are vulnerable to being seen as unfair. Equity is not obtained then if the results do not lead to greater (or at least equal) access to the educational, professional, or status opportunities, or to at least equal performance outcomes for socially marginalized groups within the realities of a multiethnic, multiracial, and multicultural society, where status and opportunities are arrayed along, ethnic, racial, and cultural lines. It can be argued even today that wealth and social status of one's background is still correlated with successful assessment outcomes. Such a reality certainly captures 21st century American society. The selection, sorting, and certifying roles for assessments still remain a chief function today, even while all groups now, regardless of backgrounds, can and will be assessed under certain circumstances. And even more, in some circles the differential outcomes for varying groups justify the lack of access to certain valued opportunities in our society, or the basis for less desirable placements.

To be sure, the pursuit of sorting does not inevitably have to be attached to sinister intentions, or even lead to achievement deflating results. Diagnostic assessment, at least in theory can serve to determine the strengths and weaknesses in students’ present ability to accomplish a task or display what they have learned. The resulting categorization allows educators then to shore up areas in need of improvement or gives attention to the fortification of skill sets where the particular deficiencies currently exist. Such sorting could also lead to the provision of enrichment or acceleration activities if this seems called for. Of course, it is crucial that whatever prescriptions for students that ensue should be predicated on fidelity in the initial assessment results. That is the results obtained for students should
accurately reflect what quality of understanding or skill a student actually possesses. In light of arguments presented elsewhere in this paper, such fidelity is not always guaranteed. Moreover, when the sorting function then leads to the relatively permanent placement of students into categories that are differentiated with respect to the quality and level of education that is then afforded to them, then this is where sorting itself may not serve the interests of the schooling process to actualize equity and excellence in education for all students, and especially for those from racially and culturally diverse backgrounds. To the extent that present day diagnostic assessments do not take into account context, social-cultural considerations, and other experiential factors linked to students’ diverse backgrounds, they may not be fine-grained enough, or suitably structured or conceptualized to address equity and excellence concerns. These matters require further exploration and expansion, and will be addressed more substantially later on in this paper.

The focus of this paper however is more squarely on educational assessments more broadly considered. The notion of assessment per se as a term in educational parlance has had a notable history of its own apart from the notion of “testing.” The Oxford English Dictionary reports that the origin of the word assessment dates back to 1626 and used with reference to estimation or evaluation. The term came into educational parlance in 1956 and was offered as an alternative to "examination" (Madaus et al, 1997).

It is also the case that the term assessment was coined originally in educational circles primarily to capture what occurred through wide spread group administration. Not surprisingly then assessments then were geared toward being efficient, manageable, standardized, easily administered, objective, reliable, comparable, and inexpensive. In this way they mimicked the testing purposes and formats that arose earlier in the 20th century with respect to intelligence testing and
“aptitude” testing such as the Scholastic Aptitude Test (now known simply as the SAT), which themselves were arranged in multiple choice formats in the service of efficiency of administration, uniformity of design, and objectivity and reliability of scoring.

The term assessment came into wider use in the late 1960's with the advent of the National Assessment of Educational Progress or NAEP program here in the United States. The notion here was tied to the triangular links between teaching, learning and assessment (Madaus et al, 1997). Assessment presumably was a means to discern how much has been learned or needs to be learned. Madaus et al (1997), among others (Shepard, 2000; Linn, 2001) argue that those who "control" assessments have had power over the curriculum; what is taught, how it is taught, and how and what is learned.

Such a focus was also connected to pervasive implementation of ability grouping beginning in the mid 1950s, which was seen as an innovation crucial to getting the most out of students with different levels of “talent,” and coupled with the premium placed on objectivity and efficiency in testing, it was not surprising that the focus of testing was clearly on outcomes and not the processes that produced these outcomes (Clarke, Madaus, Horn, and Ramos (2000). This focus on testing and identifying talent was fueled by public dissatisfaction with educational quality in America in the late 1950s and early 60s due to public consternation with the U.S. falling behind the USSR in science and technology with the launching of Sputnik. And then in successive waves of public dissatisfaction with the fruits of American schooling, we had the basic skills movement of the 70s, and in the wake of the A Nation at Risk (1983) report in the 1980s and early 90s there were increasing calls for school reform, which was the centerpiece of the Goals 2000 initiative in the mid to late 90s, and now with present day concerns about the various achievement gaps that plague American schooling and the specter of an
unprepared future work force, we have the present day concerns that resulted in the landmark legislation known as No Child Left Behind. Through such developments over time, we have witnessed that high stakes testing/assessment and concomitant accountability have been increasingly ushered into the shaping of schooling practices in American society.

In the current era of high stakes testing, policy makers find assessment attractive as a vehicle for reform. Tests and assessments are comparatively cheaper than other approaches, such as reducing class size, increasing teachers' salaries, increasing time for instruction, greater professional development. It can be more readily mandated externally, especially compared to altering what happens inside classrooms. It can be more easily and quickly implemented and fit within the political life span of elected officials. It is also readily apparent to the public that something has been done.

But we must ask ourselves in this era of increased accountability, how trustworthy is the assessment information? Moreover, how useful is the information gained in the service of equity and excellence combined? We must also consider that in the 1950s, prompted largely by the influential writings of James Conant, the search went out to find the talented students. We should have "universal elementary education, comprehensive secondary education, and highly selective meritocratic higher education" (Cremin, 1989). Tests were then deployed to identify the gifted students for selective comprehensive high school programs, and selecting students for higher education. This approach reinforced and solidified a talent sorting approach, rather than talent development. This of course diverges greatly from the current preoccupation (putatively) with having all students reach high standards. Tracking indeed remained the rule and not the exception well into the 21st century and it can be argued remains as such in the U.S., and the quality of instruction is correlated with the level or type of one's track.
ALTHOUGH THERE IS UNIFORMITY ACROSS ASSESSMENTS IN CHRONICLING THE LOW PERFORMANCE OF STUDENTS FROM CERTAIN RACIAL/ETHNIC GROUPS IN AMERICA, THE PATTERN OF FINDINGS ARE COMPLEX AND DEFY EASY STRAIGHTFORWARD EXPLANATIONS

Concerns about schooling in America very often have become squarely focused on the achievement gap(s) existing primarily between African American and Latino students and their White (and Asian) counterparts. Over the last several decades, there has been repeated documentation across a plethora of indexes for the existence of such gaps. And although over the years, there have been a host of concentrated efforts launched and the expenditure of substantial resources all aimed at the eradication of such disparities, by and large the gaps remain unabated.

To be sure, these gaps have shown up in the disproportionate over-placement of Black and Latino students in programs for the learning and emotionally "disabled," and the under placement of such students in programs for the talented and gifted. Evidence also abounds for greater disciplinary referrals and school suspensions for such students, and greater levels of school dropouts and failure to graduate from high school. But most prominently the achievement gap(s) between Black and Latino school children and youth, and their White (and Asian) counterparts has been understood in terms of performance on various measures of ability and achievement assessments. Achievement gaps have been obtained with children as young as 3 years of age (Burchinal et al, 2011), as indexed through a standardized test of "school readiness" skills. Gaps in math and reading achievement have been prominently obtained with other standardized educational assessment using the Woodcock Johnson Test Battery. For example, gaps have
been obtained in a longitudinal study using a national cohort sample when the children initially were four year olds, and again for them in the 1st, 3rd and 5th grades (Burchinal et al, 2011). These findings are comparable to those reported in a previous longitudinal study reported elsewhere using the Woodcock assessments (Murname et al, 2006). Similarly, achievement gaps have been reported as well in investigations using the Early Childhood Longitudinal Study (ECLS-K) data set (Fryer and Levitt, 2004; Condron, 2009), across essentially the same age range.

With comparatively older samples of students, marked achievement gaps, in reading, writing, and mathematics consistently have been produced for both the SAT and ACT "college admissions tests" (McKinsey et al, 2009; Luppescu et al, 2011). As a case in point, the SAT scores for the high school graduating class of 2011 showed marked disparities between the performance White and Asian American students on the one hand and those of African American and Latino students on the other. These same disparities obtained for the reading, math and writing subtests.

The assessed disparities have also showed up consistently across the K-12 spectrum with respect to statewide, "high stakes" achievement tests (Luppescu et al, 2011). Results favoring the performance of White students have been consistently revealed over the last four decades from the administrations of the National Assessment of Educational Progress (NAEP). NAEP has been popularly referred to as "the nation's report card," as it is the one test that has been consistently administered across the country since the late 1960s, and for 4th, 8th and 12th graders. Although there was some narrowing in scores among groups for a period in the 1980s, that then was reversed in the 1990s, in the main, for reading and math subtests, there have been consistent score disparities between White students and their Latino and African American peers, that otherwise have not changed on down to the most recent test administration (Boykin & Noguera, 2011;
Luppescu et al, 2011; McKinsey et al, 2009). The gaps continue to hold at the 4th, 8th and 12th levels.

While the focus of these has been on ethnic group differences in performance, data have been also parsed in other ways. One category of students that has received prominent attention in recent years has been English Language Learners (Basterra, Trumbull, & Solana-Flores, 2011). Work with such students has received attention with regard to accounting for the existence of disparities in test performance between such students and their White native English-speaking counterparts. For example, recent work in this regard has shed light on whether "mainstream" tests are culturally valid for ELLs. Solano-Flores (2011) has asserted that differences in, communication patterns, values, beliefs and lived experiences may account to a degree in the comparatively lower test performance for ELLs. For example, better performance has been attained for ELLs with the same standardized achievement test items when the items have been modified to reflect local dialect, or have been linguistically simplified; i.e. using shorter sentences, active tense; concrete or abstract depictions etc, (Solano-Flores, 2011). Similar findings have been obtained when the items are modified to be more experientially meaningful for such students (Solano-Flores, 2011).

Beyond this, more fine-grained analyses of recent NAEP data sets reinforce what is known at the national level, but also reveal issues worthy of further exploration. For example, results have been examined for Black and White 4th and 8th graders for several urban school districts in the country, and categorized criterion levels. At both grade levels, White students do substantially better than their Black counterparts in districts such as Chicago, Cleveland, Los Angeles, New, York City, and Atlanta. What's more, White students scores across such districts are preponderantly located at the proficient and advanced levels of functioning, while Black students scores placed them more greatly at the below
basic and basic levels. But intriguingly at the 8th grade, while White student scores are still substantially higher than those for Black students, the distribution of score levels for both Black and White students are markedly lower at the 8th than at the 4th grade. Students in general are doing less well in middle than in elementary school.

Beyond this, when examining the pattern of findings across the various assessments of interest, the explanations to account for the disparities defy easy and straightforward explanations. Hughes (2003) for example found that achievement test performance differences are found between third-grade Black and White students who live in a uniformly wealthy community and attend schools in a notably affluent, highly resourced school district, with pervasive, highly educated school personnel. Elsewhere, Nettles (2000) has reported differences of between 100-150 scale points between Black and White SAT scores, differences that held up across all income levels.

Still further, more fine-grained scrutiny of the data from a recent NAEP administration (US Department of Education, 2009) provides further interpretation complications in accounting for the achievement score gaps. For these comparisons, average NAEP mathematics and reading scores were examined for eighth graders classified in terms of their race and their parents’ highest level of education. It was found that the scale point disparity in the scores for Black and White students whose parents were college graduates was approximately twice as large as that obtained between Black and White students whose parents did not even finish high school. A similar picture obtained with regards to the score gaps for Latino students, except that the gap was approximately four times greater for students whose parents were college graduates relative to those whose parents were not high school graduates. At the 12th grade level the pattern of disparities was essentially the same, except the disparities were even greater between the scores of
students whose parents were college graduates, relative to those for students whose parents did not finish high school. In all, these findings presented cannot simply be explained away in terms of differences in SES levels between White students and their Black and Latino counterparts. They cannot be readily explained away in terms of differential access to resources in the homes and in the communities. We must search for more nuanced, or process based answers, or for answers that may be tied to what goes on inside the schools and classrooms differentially where White, Black and Latino students matriculate.

Some credence for looking in such directions is gained from further findings. The achievement gap in terms of test scores actually grows larger across the years in school (McKinsey et al, 2009; Fryer and Levitt, 2004; Murnane et al, 2006). This widening in fact holds across the entire K-12 spectrum (McKinsey et al, 2009; Burchinal et al, 2011). Moreover, additional evidence points even to the gap getting larger across a given academic school year (Barbarin 2002; Condron, 2009). These matters will be taken up more substantially in subsequent sections of this paper.

CAN WE TEST OUR WAY TO GREATER OPPORTUNITIES FOR DIVERSE STUDENTS AND TO PROMOTE SCHOOL REFORM AND GREATER ACHIEVEMENT LEVELS? SHOULD WE?

The answer to the first question is yes and no. The answer to the second question is that testing plays a part but not necessarily the only or not even the most important part for enhancing school and student achievement.

It was the case a decade ago and may be even more the case today that in the realm of educational assessments in the United States, much more importance and virtue is attached to large scale assessments of students and educational programs
for enhanced student and school achievement, than to ones focused more so on classroom considerations (NRC Report, 2001). More financial resources, labor, time are devoted to research, development, and implementation of large scale assessments than to the fostering enhancements and implementation of ones geared directly to classroom-based factors. The trend has certainly been in that direction over the years.

We have gone from district-wide in the 60s to statewide in the 70s to nationwide in the 80s and 90s to international in the 90s and early 21st century, and increasing the number of grades tested across these years at the different levels as well (Stiggins 2002). To be sure, an emphasis on large-scale assessments has merit. By definition the testing is wide spread, therefore getting insight into the bigger picture of education. Such testing is cost and time efficient, provides for common yardsticks and for gleaning different grain sizes of information from the international, national, state, district, school, classroom, and even individual unit of analysis. The increased intensification of focus has been animated by avowedly good intentions: to increase achievement levels for all students, and regardless of their backgrounds. There is considerable merit in the pursuit of equity with respect to increasing achievement for all students, and to hold students and educators to high standards, thereby promoting excellence for all as well. It is notable also to ground this pursuit in systematic, empirical data, using indices characterized by psychometric soundness in order to provide arguably objective criteria for imposing education accountability for attaining criterion performance levels across the various layers of the schooling enterprise. But time has proven that this tactic has shortcomings that must be rectified if in the future we will truly attain equity and excellence in education in our society.

Yet Madaus et al (1997) argued fifteen years ago; "while [large scale] assessment can assist in reform efforts, the nation cannot assess, test, nor examine
its way out of its educational problems." (p. 5). This observation, largely still rings true today. At least, perhaps, we cannot do so with the current disproportionate preoccupation with large-scale educational assessments and with the almost exclusive linkage of the results from such assessments to the consequences of high stakes accountability agenda.

There are three problematic issues attendant to the current rendition of high stakes, large-scale assessments. First, the accountability mechanism is flawed as a lever for positive school and student change. Second, there is a synchronization challenge associated with when the assessment results are made available and if then they can substantially impact the changing of educational practices. Third, there is difficulty in knowing why the particular results occurred, what do they mean, and what should then be done as a consequence.

With regard to the first point, over the last several decades, three crucial elements in the nation's assessment agenda have emerged. They are standards, assessments and accountability. The three have been inextricably linked, but not necessarily in the most effective ways. The focus has been on high academic standards, and thus what academic success is defined as, which in turn must be reached as indexed by assessment; and we hold educational stakeholders accountable for seeing that the assessment results demonstrate that the standards have been met or are at least are being increasingly approximated. Schools are "rewarded or sanctioned" based upon how "successful" they are in this enterprise. All told, this set of processes speaks to assessment of learning. As Stiggins (2002) stated "These tests tell us how much students have learned, whether the standards are being met, and whether educators have done their job they were hired to do" (p.2).

Yet it can also be argued that such assessments are being used in such manner for purposes of behavioral control, and for coercion to learn. It can be
further argued that such purposes can undermine both the informational value of assessments, as well as the quality of student engagement in learning.

As Stiggins (2002) has posited, policy makers, test designers, and politicians are joined in their conviction that the way to improve schools and student achievement is through a process of coercion and pressure, aimed at impelling schools and teachers and even school systems, to provide better instructional services to students. Moreover, test publishers are all too willing to oblige in that there is profit to be made in offering a product to serve such ends, accountability is unimportant for them. It is just that having consequential educational decisions based more or less exclusively on high stakes tests largely leaves unattended matters concerning the provision of daily and "moment to moment" feedback that students need in the course of learning at school. There is also relative silence on what opportunities should be implemented to better prepare stakeholders to be able to meet the accountability expectations. Thus prevailing emphases on large-scale assessment conceivably are doing more harm than good when it comes to student learning, in spite of purportedly good intentions. Toward the goal of student and school improvement in the context of the need for accountability, we must have a more equitable balance between large-scale standardized assessments and classroom based, more instruction relevant assessments (Stiggins, 2002).

This conclusion leads naturally to the third critique posed. Large-scale assessments by and large give us little insight into what the results actually mean, why the assessment results occurred, and what educational practices should then ensue. To be sure, well-constructed large-scale assessments will have clear achievement targets. However, they will likely have ambiguity about what a test score means, and reveal little in the way of windows into or hypotheses of what the next instructional steps should be to optimize learning outcomes for the students (Stiggins, 2002). In this regard, Stigler and Hiebert's quote is telling..."A focus on
standards and accountability that ignores the processes of teaching and learning in classrooms will not provide the direction that teachers need in their quest to improve" (Presented in Black and Williams, 2010; P. 81). Indeed, the increased focus on standards in assessment and teaching and learning certainly has its merits. Moreover, raising the bar for already disengaged and even disenfranchised students, and then testing to these raised standards in and of itself exacerbates the achievement problem, it doesn't solve it. Indeed there is virtue in questions posed by Stiggins (2002) who queried..."How can we use assessment to help all of our students want to learn? How can we help them feel able to learn" (p.1).

One crucial recommendation of the NRC (2001) report cited in this paper is their call to focus less on assessment of learning and more on assessment for learning. This call for assessment for learning has been greatly pursued over the years by Stiggins and his associates (Stiggins, Arter, Chappuis, and Chappuis, 2004). They argue that assessment of learning is typically used to confirm student competence, sort students based on ability/achievement status; for grading/evaluation purposes; and extrinsic motivation is to be the engine that impels it (threat of punishment, promise of rewards). Assessment for learning is to be done on a daily basis. According to Stiggins (2002; 2007; Stiggins et al, 2004) assessment for learning entails teachers: setting achievement targets in advance of instruction (displaying good and bad examples of pertinent work); making these known in understandable ways to students; becoming adept at assessment so that accurate student portrayals are obtained; providing students with informative, non-judgmental feedback (focusing on strengths as well as weaknesses); adjusting instruction accordingly; having students themselves become fluent in self assessment (e.g. what are my goals, where am I now, what must I do to improve, am I making progress?), or as Stigler and Hiebert (2009) have labeled it...
assessment *while learning*; and having students come to share with others the status of their achievement strivings.

It is crucial to distance *assessment for learning* from the very similar activities of benchmark assessment and formative assessment (Stiggins, 2002). In the former case, benchmark assessment is not substantially distinct from outcomes assessment in so far as the results from both are available typically some time past when the actual relevant material was covered in the class; even though the time lapse is certainly greater for outcomes assessment. Thus “in time” feedback is not provided. It is also the case that evidence supporting the efficacy of benchmark assessments for raising achievement is not strong (Heritage, 2011). In the latter case, formative assessment typically is conducted for student learning diagnostic purposes per se. It typically is conceived to provide teachers with knowledge of the areas or skills for which students are in need of improvement. But the focus in such tests is usually on what students don’t know or can’t do. This then leads to a remediation tactic for addressing the problems uncovered, and this typically entails re-teaching per se, or otherwise devoting more time to the student so that s/he can then do better. Yet such an assessment approach, while well intentioned, typically fails to shed light on why the student has deficiencies in the area of focus, and especially not on what instructional changes the teacher should make to insure that teaching will be more effective than before.

A take away from this section is that assessment for learning along with assessment while learning should be coupled and then linked explicitly to making classroom learning processes more transparent; and in turn these classroom-based practices should be synchronized with large-scale assessments of learning. Such an amalgam would position us better to test our way to greater schooling outcomes. However additional factors must be entertained if we are to functionally connect such considerations also to matters of diversity and greater excellence and equity.
In this regard, we must also consider assessments of learning contexts. We must broaden our scope with respect to key forms of assessment validity. And we must have a more nuanced, robust, and textured understanding of how assessment should be done; with due consideration to issues of diversity and culture, and how such relates to the functions that schooling should serve in the American social order. These topics will be addressed in the remaining sections of this paper.

**GREATER EMPHASIS SHOULD BE GIVEN TO ASSESSMENT NOT OF STUDENTS PER SE, BUT OF (ACADEMIC) CONTEXTS.**

Accountability is important to be sure in terms of decision-making and policy, but to what extent is the schooling process itself measured. As Oakes (1989) proclaimed in her seminal piece on this topic, we need to see if enabling conditions are present inside classrooms that "promote high quality teaching and learning," (p. 186) for all students. This was an "underdeveloped measurement technology" when her paper was first published. It still is an underdeveloped technology. One simple way to capture the issue of assessment of context would be whether the material was actually covered in class. Polikoff (2010) has referred to this phenomenon as “instructional sensitivity.” But more germane to our present concerns would be questions such as: do students from diverse backgrounds actually have legitimate opportunities to learn? How would or do we know? As a case in point, if assessments are designed to test critical thinking skills, are such skills being taught and taught successfully so that discernible and pervasive increases in critical thinking skills are now evident inside classrooms? Recently, Mathews and Lowe (2011) picked up on this issue with respect to critical thinking. They defined critical thinking as "the act of challenging ideas and considering alternatives based on developing valid and plausible premises through sound logic
and reasoning." p60. Critical thinking would for example be manifest when students look for similarities among things that seem different and differences among things that seem similar. They posit that critical thinking is undermined by for example, stifling of student's questions, creating authoritarian classrooms, prioritizing the reproducing of information as a desirable learning outcome; and presenting information that is disconnected from students’ lives outside of school. And beyond this, the press for assessment here would not be just to come up with a checklist of “effective” teaching strategies to see if they are present or absent inside classrooms. It is also crucial to discern not only was certain information covered, but also was it covered well, broadly, and was it accurately learned and at sufficient dose level and with suitable cognitive load and in ways that foster long term retention, application and knowledge transfer.

To be sure, the examination of classroom environments has had a several decades-long history in the field of educational psychology. Such work dates back at least to the late 1960s and early 1970s (Wahlberg and Anderson, 1968; Moos, 1974) leading to the development of the Learning Environments Inventory (Wahlberg and Anderson, 1968) and the Social Climate Scales (Moos, 1974). Beginning in the 1980s, work in the domains of classroom environment assessment increased dramatically owing to the influential collaborations of Barry Fraser and Daryl Fisher, and their colleagues (Fisher and Fraser, 1981; Fraser and Fisher, (1983; Fraser and Wahlberg, 1981) as additional measures were developed across the K-16 spectrum. Such assessments included the My Class Inventory, Classroom Environment Scale, Individualized Classroom Environment Questionnaire, and the Constructivist Learning Environment Survey, among others (Fraser, 1998; Taylor, Fraser and White, 1994; Dorman, Aldridge, and Fraser, 2006). The measures have taken different formats to include direct classroom observations, and teacher and student surveys. These measures presently are in widespread use across the world.
Over the years, this important and influential line of scholarly pursuit has not been linked substantially to matters of school reform in the United States, or to addressing the achievement gap; nor has it been put to widespread use to inform professional development for teachers and administrators aimed at the improvement of instruction. The earnest and sustained attempt to make such connections is perhaps well overdue.

It is crucial to appreciate that for a classroom context to be truly enabling, it is one that fosters authentic, high quality learning opportunities. If the classroom context is a toxic or disabling one, then the opportunities for effective learning will not be manifested. An enabling classroom context to be sure does not guarantee that a student will learn well and ultimately score highly on an outcomes assessment. But it is submitted here, that examples of “assessed false negatives” will be minimized. The notion of assessed false negatives is that a given student, who is fully capable of learning to high standards and in turn scoring highly on the assessment of achievement, will fall short in his/her assessment outcome and then be judged inappropriately as an inadequate learner.

Beyond this, an enabling classroom also should be gauged by the quality of transpersonal dynamics and affective tone of that classroom context. In this regard it should be a “safe place” for students to learn in (Heritage, 2011). Those who understand learning processes appreciate that by definition, learning exposes a student’s intellectual vulnerabilities. It requires them, sometimes publicly to admit what they don’t know or cannot presently do or do well. Teachers or peers cannot use this vulnerability as a weapon against a student. It should not be cause to embarrass, ridicule, or demean a student’s current understanding, or intellectual ability. But instead it should be appreciated even encouraged to be proclaimed, as sources for new learning." (Heritage, 2011, p. 19). A sense of mutual trust and indeed encouragement must be fostered in this learning environment so that
students feel comfortable asking for help, raising questions, announcing to others what they do not yet know. An enabling classroom is certainly not a site that functions principally to publicly separate the good from the bad learners, the smart from the not so smart students. It should not be a site for such sorting functions. It should be a site where it is widely understood that students’ academic capacities will be built up, will be further developed, as increasing levels of learning for all students are encouraged, fostered, indeed celebrated (Boykin, 2000; Kelly and Turner, 2009; Strambler and Weinstein, 2010). If the environment is enabling, then it would be supportive for effective learning and then we should expect that greater, genuine student involvement in learning would transpire.

In recent years, involvement in classroom work has been increasingly captured in both the research literature and discourse on teacher practice, the concept of engagement. Indeed, there is mounting evidence that student engagement in classroom learning activities is a key, even essential ingredient in capturing the quality of classroom teaching, and can serve as an important proximal gauge for quality of student learning, and even a crucial marker for eventual performance level on standardized outcomes assessments (Li and Lerner, 2011; Strambler and Weinstein, 2010; Bodovoski and Farkas, 2007). It is crucial to mention that engagement does not simply boil down to student time on task per se. Authentic engagement should be captured as progressive involvement with a given lesson that is leading toward increased learning and understanding of the lesson content (Engle and Conant, 2010). It entails active, positive, non-superficial and progressive involvement in the learning process. Indeed, in the influential work of Fredericks, Blumenfeld, and Paris (2004), engagement is conceived as a three dimensional phenomenon. There is behavioral engagement, which speaks to level of student attention, persistence, and effort; affective engagement, which entails positive emotional absorption, value, and interest; and cognitive engagement,
which denotes deep processing of information and critical/higher order thinking. The more authentically and pervasively engaged are students, the more educationally enabling is the classroom environment (Borman & Overman, 2004; Kelly and Turner, 2009). It is strongly recommended here that an indispensible aspect of the assessment of context should be the surveyed perceptions of students and teachers with regard to student engagement, and the real-time third party observational indexing of such engagement as well.

THE EMERGING IMPORTANCE OF CONSEQUENTIAL AND INTERPRETIVE VALIDITY

The arguments and stances presented in this paper need to also be amplified through consideration of two forms of validity that receive little or no attention in the discussion of educational assessments. These are consequential and interpretive validity.

With respect to consequential validity, this concerns the individual, social or societal ramifications of the deployment of an assessment, which are deemed either harmful or beneficial. What is harmful or beneficial can likely be complex in its construal. To be sure, assessment for sorting purposes does not necessarily have to be problematic. For example it may be beneficial when it is done to yield accurate diagnosis of needed remedial support for students. But in the main, it is argued presently that when an assessment serves to sort students, or select the "best" students, this would likely be beneficial for those sorted into a favorable category, or selected for a favorable result. But this assessment process would likely be seen as producing a less favorable result for those weeded "out" or not selected into the valued grouping. This would be a negative consequence for such students at the individual or even social group level. Yet by selecting the "best qualified" as
indexed by the assessment, the societal consequence would likely seem to be beneficial to some observers. Certainly, this line of argument could be taken to imply that there is little in the way of educational benefits. There certainly could or would be benefits, but the benefits could be more widely distributed.

Now suppose the goal that decision makers hold for an assessment is that it should lead to improvement in student or school achievement for all students. And suppose in the wake of the assessment implementation at targeted schools only a few students do improve, and overall the schools' scores don't meet expectations. Moreover, if the students who do not improve come most often from certain social (cultural, racial, low economic-status) groups, then at this social level and the level of the individuals who belong to such groups, the consequences are particularly not favorable as well. For example, the results from the assessment deployment could lead to lowering standards or expectations for such students. It could also be argued that students from certain social groups do not improve on the assessments because they are incapable of doing better or even as well as the assessment-favored group. The extension of this logic would often be that the assessment itself is not problematic, but teaching these assessment un-favored groups will not yield more positive results because of their innate deficiencies or because they are not sufficiently prepared to benefit from instruction due to their deficient out of school experiences. Or it could be concluded that the school itself is doing a poor job of educating its students, and the school then will be subject to negative consequences, even leading possibly to reconstitution. In any case, any of these scenarios represents negative consequences resulting from the assessment's deployment, at the individual, social group, school, and even societal levels. The "unintended consequences" of NCLB would seem to be in line with the various possibilities outlined here.
But alternatively, some decision makers conceivably could subscribe to the sorting function for schooling and still deems that it is unjust to have unequal distribution of assessed "excellence" across social groups. In such cases, the assessments themselves could be judged unfair or at least ineffective, and the push then is to allocate the distribution of assessed excellence more equally across groups. But this could lead to a backlash of sentiment that the revised assessments will have to compromise on attaining true excellence, and be unfair to those who deserve to be labeled excellent by virtue of their true measured ability level.

But there is a growing chorus of scholars and educators who promote that schooling's purpose should more so be construed as promoting human capacity building, of human capital production, as indexed through pervasive improvement and attainment of an excellent criterion level for all students. For this aim, it is advocated that a system (not an individual assessment) of coordinated assessments, collectively serving multiple purposes, should be devised, that places diversity in the forefront of the educating and testing nexus. This system would seek to discern what instructional vehicles can be deployed and what insights about diverse lived experiences and social identities can be brought to bear on fulfilling the pervasive human capacity building agenda for schools. The aim here would be that assessments and schooling both must be changed, and in doing so, what is to be minimized would the negative consequential validity of the assessment enterprise.

Seen from this angle then, a preponderance of current assessments work at cross purposes with such a capacity building function for schooling, in that they likely serve to cloud, misrepresent, or even fail to detect the ability, competence or potential of many students from diverse backgrounds. Such would be consequentially problematic, and interpretationally insufficient or even inaccurate.
It thus can be further argued that such a consequence arises in large measure, from a lack of *interpretive validity* of these assessments. That is, what is inferred from the results of many conventional assessments may be faulty, incorrect or misleading. This may arise for several reasons. The following quote should be kept in mind: "...by its very nature..., assessment is imprecise to some degree. Assessment results are only estimates of what a person knows and can do." (NRC Report, p2). Therefore, when we obtain an assessment score, it can prove difficult to discern if it is an estimate of one's ability, learning achievement potential, or teaching quality exposed to? (Hickey and Zucker, 2005). Moreover, they argue that motivation to do well on tests is a major compromiser to how much results reflect competence, knowledge or ability. Hickey and Zucker (2005) even posit that "knowledge ultimately resides in the context of its use.” p278. Still further, they offer that if one is not meaningfully participating in a given "knowledge community" (e.g. the classroom) it is ambiguous as to whether one is less competent or has less potential. It may be overly simplistic to infer that knowledge resides solely inside the individual’s head per se.

Still further, a given test may be one of low-stakes, and certain non-mainstream students do not put forth the necessary efforts to do well on them; or they may be high stakes tests where many minority students feel overly anxious because they are fearful that if they perform poorly it will reflect badly on their social group as a whole (Steele and Aronson, 1995). Or it may be that the tests are insensitive to the instruction actually covered in the lead up to the testing (Polikoff, 2010), or the classroom coverage was different, inadequate, or ineffective. In all then, there can be non-trivial latitude in for example what a typical standardized achievement test score tells us. Is it about learning, ability, misinterpretation, and test wiseness, exposure? The score by itself cannot provide a sufficient answer. We must take into account contextual considerations.
Issues of interpretations enter also into this discussion in a different way. What about the interpretations that students themselves have about their own self as a student, a learner, about their intellectual capabilities as an individual or as a member of a given group? These self-referential insights are rich information sources for getting at how to understand a student's assessed performance. But in taking into account such a data source, we cannot rely only on the methods linked to classical psychometrics (Gipps, 1999). Qualitative data would be garnered, and through ethnographic methods linked to students' own lived, every day realities and phenomenological frame of reference. From such we can glean students' intentions, buy in, definitions, understandings, values and even interpretations of the task/assessment demands at hand. When it comes to testing per se, we can glean whether students are "on the same page" with the testing's "official" purpose. The information gathered will be subject to interpretation. Indeed the pursuit of systematic interpretational inquiry, or hermeneutics, should be integral to this assessment in context enterprise (Moss, 2003; Cole, 1996).

An essential of such inquiry is to understand better what is it about the same "objective" situation that it holds multiple and differential meanings for different persons in that same setting, or why objectively different settings hold the same meanings but for divergent people.

This will surely require getting inside the black-box of classroom teaching and learning dynamics (Black and Williams, 2010) to enrich formative assessments and assessments for learning, as we capture the phenomenology of students lived classroom experiences and as they are linked to their lived realities outside of school, or their own experiential perspectives broadly speaking, and even when students are too young to provide rich explanatory insights, we can endeavor to extract such insights from the various ways they are responsive to varying classroom contextual conditions and circumstances.
The assessments done should be polyangulated to include the perspectives of students, teachers and third party observers. And all this must be done with new assessment methods that reduce the time and labor intensity of such efforts, and insuring the availability of the results to be packaged for reasonably efficient digestion by teachers as real time, informative feedback.

Herein may be where recent and future technological advancements in educational technology may play a vital role (Pellegrino and Quellmalz, 2010). Thus advancing technology may be especially useful with respect to processing more complex information, and real time customized feedback to students, educators, and future assessment specialists, in the melding of information-rich quantitative and qualitative data from multiple sources. It is also conceivable that technology can aid in the alignment of formative and classroom-embedded assessments with outcomes assessments at the district, state, national and international levels; all in the service of supporting the actualization of high quality, capacity building, teaching and learning.

It would seem to follow that greater, keener, more "accurate" insights are needed, via assessments, on (1) why differing students' perform as they do, (2) how should these differences be adaptively addressed in the service of human capacity building, and ultimately (3) how do we prepare educational stakeholders to be more effective in these regards. While the third point is beyond the scope of this paper (although it deserves great attention elsewhere), the first two concerns will be taken up presently.

The upshot of this line of reasoning is that when we move way from schools functioning to sort for, select, certify, and even anoint the very best students, and more so to the purpose of pervasive human capacity building, then the focus should be on crafting opportunities to learn to high levels for all students. As mentioned previously, this pursuit would necessarily raise and require answers to
several pertinent questions: Do students have genuine opportunities to learn? Opportunities to learn what? Opportunities to learn how? Opportunities to learn when? Opportunities to learn where?

On the matter of opportunities to learn *what*, this can be expanded to the consideration of what should be in the official cannon of the curriculum and what would be the sought after learning outcomes. In this regard this would seem to encompass actualizing potential, reaching high standards, and with respect to knowledge, skills, abilities, and civic participation. Moreover, Darling-Hammond and Falk (1997) capture some of this territory when they state that we must support "schooling that will encourage all students to construct, integrate, and apply their knowledge, to think critically, and invent solutions to problems; and to respond creatively to the unforeseeable issues that will confront them in the complex world of tomorrow" (p 51). Moreover, it would seem that the principal purpose of (educational) assessments then would be largely to gauge the presence and consequences of opportunities to learn; and to learn in order to be prepared for the rigors, realities and responsibilities of the 21st century.

In all then, the push in educational assessments for the 21st century should be for greater support for a human capacity building approach to schooling, where greater opportunities to learn for all students is greatly enacted and where we deploy a polyangulated system of assessments that leads to increased student engagement while discerning the psychosocial integrity in the lived experiences of extant students from diverse backgrounds that schools and school districts are intended, indeed required to serve.
CULTURE, RACE, EXCELLENCE, EQUITY AND ASSESSMENT

A growing literature points to engagement as particularly linked to favorable learning outcomes for minority students, who have been placed at risk for academic failure (Tucker et al, 2002; Borman & Overman, 2004; Wenglinsky, 2004). The data typically show that classroom engagement is among the most potent predictors of student outcomes. In reviewing research on the learning and performance of African American and Latino students, the evidence strongly suggests to the extent that engagement processes are positively manifested, this can dictate greater success for these populations (e.g. Skinner & Belmont, 1993; Borman & Overman, 2004; Lutz, Guthrie & Davis, 2006; Bodovski & Farkas, 2007; Li & Lerner, 2011). Findings in support of this claim have been documented across the full kindergarten to 12th grade spectrum (Borman & Overman, 2004, Balfanz & Byrnes, 2006). For example, in a study by Balfanz & Byrnes (2006), self-reported effort and engagement emerged as a significant predictor for Black and Latino middle school students from an “urban background” of whether the students’ gains in math performance exceeded what would have been expected by average yearly grade equivalent increments. According to the authors, this outcome by implication suggests that the prediction then is of gap closing math performance.

Moreover, engagement that is informed by certain learning attitudes or guiding functions, and by certain classroom dynamics, themes, arrangements and processes, that have been referred to as asset-focused factors, are particularly instrumental in promoting the requisite levels of engagement that lead to the desired outcomes, or even impact these outcomes in a more direct fashion (Boykin & Noguera, 2011). Prominent among the guiding functions or learning attitudes are self-efficacy, self-regulated learning, and incremental beliefs about intelligence or
ability (Bandura, 1977; Schunk and Zimmerman, 2007; Yeager and Walton, 2011). Self-efficacy entails the confidence that one has that if they can do what it takes to accomplish the desired outcomes. Self-regulated learning entails the propensity for planning, monitoring and assessing one's own learning. Incremental beliefs, (as opposed to fixed beliefs) involves the belief that one's smartness or competence is malleable and thus potentially incremental. Recent evidence indicates positive outcomes for struggling minority group learners accrue when self-efficacy (Borman and Overman, 2004; Byrnes and Miller, 2007; and Kitsantas, Cheema, and Ware, 2011); self-regulated learning (Horner & O’Connor, 2007; Schunk, 2005; Mason, 2004; and Zito et al, 2007), and malleable beliefs about ability (Blackwell, Trzesniewski, and Dweck, 2007; Yeager and Walton, 2011) are manifested. As one example, a study by Mason (2004) speaks to the potency of self-regulated learning. Participants in this investigation were 5th grade students with low reading achievement test scores (falling in the 10th to 40th percentile range). Over 90 percent of the sample was African American children from low-income backgrounds. Half of the sample received explicit training in self-regulated learning to aid in reading comprehension. The other half received standard reading instruction. Reading performance was superior for those in the intervention group who were taught to deploy goal setting, self-monitoring, and self reinforcement (for making progress) while engaged in reading. Elsewhere, research evidence shows that African American students are more likely to blame their own shortcomings for academic difficulties or failures (Good, Aronson & Inzlicht, 2003). That is, they make internal, stable attributions for negative outcomes. Yet when they come to believe in an incremental or malleable theory, they are much less likely to blame their own fixed intellectual shortcomings for their current struggles. Instead, they come to view mistakes as an indicator that they did not try hard enough or did not approach the problem appropriately. Having African
American students come to believe that competence and ability are changeable and not fixed can have positive impact on their achievement strivings in that they become more task engaged and perform better on tests of achievement (Blackwell, Trzesniewski, and Dweck, 2007).

Research also indicates that the deployment of asset-based strategies have a direct impact positive impact on student classroom engagement and gap-closing achievement-raising academic outcomes (Boykin and Noguera, 2011). As the term implies, this approach seeks to build on the assets that children and youth from diverse backgrounds bring with them into learning settings, provide classroom conditions that encourage the expression of these assets, and help create academically relevant assets for students in school settings (Boykin, 2012; Boykin and Noguera, 2011). Among the most empirically verified such factors are: teacher-student relationship quality, which entails the provision of a socially and emotionally supportive yet demanding and high expectations classroom learning environment; collaborative learning, which entails collaborative intellectual exchanges among students and insures that all classroom participants are actively involved in the learning process; meaningful learning, which conveys building on students' past experience and prior knowledge and making connections in school to significant events in students' lives; cultural resources, captured as building proactively on the cultural, family and community assets, values and practices students bring with them to the classroom; and information processing quality, which involves directly teaching students problem solving and learning strategies, and promoting higher order thinking and critical understanding with respect to subject matter.

There is ample evidence in the extant research literature that asset-focused factors, when incorporated into classroom teaching and learning can be particularly beneficial for ethnic minority students across K-12. As the term implies, this
approach seeks to build on the assets students (and other learners) bring with them into the learning setting, or create assets for them. The research evidence reveals that while teachers generally hold lower expectations for Black and Latino students than their White counterparts, even when controlling for SES, positive teacher-student relationship quality has achievement enhancing, gap closing consequences for low-income ethnic minority students (Tenenbaum and Ruck, 2007; Hamre & Pianta, 2005; Stewart, 2006). The promoting of mastery goal structures leads to enhanced engagement, achievement, and positive climate for ethnic minority students (Kaplan and Maehr, 1999). A recent meta-analysis indicates that collaborative learning more positively impacts achievement outcomes for Black and Latino than White students (Rohrbeck, Fantuzzo, Ginsburg-Block, & Miller, 2003). Meaningful learning has gap closing consequences at both the elementary (Anand & Ross, 1987) and secondary level (Cohen et al, 2006). The deployment of culturally relevant strategies in the form of promoting such themes as communalism (Hurley, Allen and Boykin, 2009) or incorporating popular culture (Lee, Mendenhall, and Tynes, 2000; Crumpton & Gregory, 2011) has enhancing impact on achievement outcomes for many African American students. Moreover, directly teaching ethnic minority students efficient and effective information processing skills have positive achievement consequences as well (Mason, 2004; Williams et al, 2005; Jitendra et al, 2007; Ramani and Siegler, 2011).

As one case in point, the potential gap closing potency of learning via collaboration has been documented in a meta-analytic review conducted by Rohrbeck, Ginsburg-Block and Fantuzzo (2003). All studies reviewed were at the elementary school level. In general, peer assisted learning contexts yielded greater math outcomes than did contexts marked by individualistic or competitive learning. Yet more particularly, the differences favoring peer assisted learning were greater in urban over rural and suburban settings, low-SES over mid and high

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SES levels, and for minority status (Black and Latino) compared to majority (White) status. In fact this ethnic minority status difference favoring collaborative learning, was the largest of all comparisons. That is to say, the benefits of collaborative learning for Black and Latino students as compared to for White students, was the largest difference among all the comparisons.

In spite of such evidence from the research literature, such findings have not substantially found their way into educational practice. All too many racial minority students are on "trajectories of marginalization" in our nation's schools. This has lead to task disengagement; further leading to subject matter disengagement; to school disengagement; and eventually to societal disenfranchisement. Increasing engagement (thereby decreasing disengagement) at any or all points along this trajectory can lead to greater opportunities to learn. As stressed in this paper, assessments of engagement/disengagement are needed, as are assessments of the instructional and curricular activities, and the enabling or disabling conditions inside classrooms and other learning settings. One marker to be mindful of is captured in the following quote from Cobb and Hodge (2002): "The gate keeping role that [subject matter] plays in students' access to educational and economic opportunities is not limited to ways of knowing associated with participation in the practices of different communities. Instead it also includes difficulties that students experience in reconciling their views of themselves and who they want to become with the identities they are invited to construct in the... classroom" (p. 249). When students, are encouraged and supported by their teachers and peers to reach high levels of performance, they can respond favorably in school. When students see their lived social and cultural experiences meaningfully incorporated into classroom learning activities, they can respond favorably in school. When students are not penalized for not doing or knowing what to do academically, rather than penalizing and blaming them for this, they are
provided with intellectual tools to handle the lesson material more effectively and efficiently, they can respond favorably in school. Incorporating such factors into the schooling process can likely lead to positive academic outcomes, and the assessment of the effective presence of such factors inside classrooms should become a measurement priority in the 21st century. These indices should be both quantitative and qualitative. They should incorporate surveys, direct observations and performance appraisals. Data should be gleaned from several stakeholders. Educational personnel must be prepared to provide such enabling learning conditions inside classrooms and for that matter other learning venues as well. All of this is done to foster an authentic human capacity building function for our students, in our schools, in this century.

In light of the issues raised in this paper, outcomes assessments could expand their scope to include broader notions of academic understanding, or intellectually valued skills, such as the creative use of information under conditions of limited resources, or the ability to thrive in the midst of social contradictions or in the midst of adults who don't convey they have your best interests at heart; or problem solving in real life social settings, where multiple, even seemingly incompatible social agendas have to be simultaneously and successfully negotiated.

To add more density to the understanding of the issues at hand, it is crucial to distinguish between vertical and horizontal diversity, in regard to matters of schooling. Vertical diversity speaks to a hierarchical ordering of performance, skill, competence, etc., and where this ordering can be imminently measured in quantitative terms. Vertical diversity often implicates that the experiences or attributes of lower ranked individuals or groups account for the lower levels of performance. Horizontal diversity speaks to differences among individuals or groups for example, that are more qualitatively captured and for which relative
ranking would not be appropriate. The differences are just differences, and no particular ranking value are attached to what experiences or attributes are better or worse per se. At issue here is that even when students from one racial or cultural grouping perform more poorly than others in school or on assessments, we should not necessarily presume that their social or cultural experiences or their intellectual proclivities are also of lesser quality, or that they explain away the ranking differences. Yes certain groups do perform more poorly on assessments. But it should not be automatically concluded that their lived experiences and the manifestations of these experiences are of a lesser quality. Consequently from a horizontal diversity lens, we should seek the possible equally potentiating value of these experiences and inclinations; and proffer assessments that go beyond current indices for academic understanding to include ones that represent the diversity of experiences of the students inside classrooms, and that manifest value for these experiences and for the social, intellectual, and cultural capital that they generate.

Another issue for consideration is what do we mean by an "education?"

More specifically, some consider education to be a thing, a commodity that students acquire or receive. The views and arguments presented in this paper construe education more so as a process. To view education more so as a process than a "thing" or "goods" that one acquires over the course of their academic matriculation, would entail the viewing of education as a family of processes that one engages in with teachers and other students (and likely even others outside of the formal schooling setting), and takes the forms of participatory transactions, discourses, dialogues, and continuous skill and knowledge acquisitions; as well as varying vectors of effort and improvement.

In all then, with regard to matters of culture, race, excellence, equity and assessment, the fundamental argument focused on in this paper is, in the pursuit of a pervasive human capacity building agenda that undergirds student learning,
students from diverse cultural and racial backgrounds must be given high quality, legitimate opportunities to learn. These opportunities to learn should be assessed in real time by an interlocking set of classroom based assessments, assessments that have a broader conception of what should be learned, and this broader conception should be incorporated in the formulation of more long-term outcomes assessments.

In this regard, student learning task engagement is key. It is the linchpin ingredient for both indexing the quality of learning and in turn assessed achievement outcomes. Learning should be understood as not simply doing well on some test per se, but must be construed as gaining understanding, insight, skill, and knowledge with regard to the curriculum at hand. However the notion of *curriculum* itself must be unpacked. Learning *should* take place with respect to the *intended (official) curriculum*, which may or may not be the same as the *taught curriculum*, and certainly could be at varying odds with the *learned curriculum* as an individual and group phenomena. According to the analyses of this paper, students in the classroom may not necessarily be learning the overtly taught curriculum. Indeed the taught curriculum also includes the *hidden curriculum* vis-à-vis socialization messages conveyed by teachers and other schooling personnel, with respect to who (what group) has the power to define what a good student should look like, act like, think like; what is educationally important to know; what is to be valued educationally; what is the prevailing ideology about what constitutes learning; and who is most capable of doing so. Hence, students from diverse racial and cultural backgrounds seemingly could be disengaged from the formal lesson, but deeply responsive to the messages contained in the hidden lessons transpiring in the classroom. Or they may be engaged in activities that are well intentioned and personally meaningful, just not what the teacher formally was attempting to convey. All of these complexities also have profound implications.
for the interpretive and consequential validity of the *assessed curriculum*. The ultimate goal then in the pursuit of both *equity and excellence* is to increase the number of students, and from diverse racial and ethnic backgrounds, who are 3-dimensionally engaged in authentic learning activities that foster individual, (racial or ethnic) group and school goals simultaneously. They must be engaged participation, calibrated by classroom based capacity building assessments, rather than disengaged participation in the better synchronized intended and taught curriculum, so that the learned curriculum of the students can be well-manifested on the ensuing assessments of learning that could be administered periodically, but certainly at the end of the academic year.

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The converging matters of assessment, diversity, equity and excellence plausibly can be approached (at least) from two distinct yet interrelated stances. There is the social justice angle. There is also the human capital production position.

From the social justice standpoint, the argument would be that it is morally appropriate to critique the inherent fairness of assessment in terms of how negatively certain subpopulations within society seem to consistently fare poorly on various assessment measures. Many advocates of this stance also argue that assessments are even conceived to serve a hegemonic function so that certain "mainstream" groups are to be privileged and prioritized. This is then socially unjust, and such "injustice" must be eradicated. In all then the social justice argument is that the bias, problematics or illegitimacy of such measures must be exposed and rectified since in their present forms, these assessments do not allow the abilities and propensities of certain groups to be accurately or adequately
ascertained. From this stance it is also argued that we need to determine how such assessments can more truly discern the performance capabilities of certain groups without undermining the psychometric quality of such assessments; without unduly penalizing those who fare well on such measures in their present forms; and without inappropriately undermining the pursuit of excellence in the standards of the outcomes sought. On this last point, certain critics of the social justice stance argue that its pursuit permits access for less qualified people to opportunities that they have not earned or do not deserve. Stating this last point differently, the claim is that we should not diminish the pursuit of determining excellence in order to satisfy the principle of equity. Pushing this latter point further, one other danger that critics raise is that the seeking of social justice obscures the actual deficiencies either inherent or experiential of the diverse or non-mainstream groups by the preoccupation with inclusiveness in the pursuit of fairness.

The social justice conception can be contrasted with the human capital production or capacity building stance. While the former would claim that the pursuit of social justice in assessment is a societal good, the latter would claim that it is a societal good to foster extensive, high-level knowledge, skills, and abilities in intellectual, technical, and civic participation domains, for successive cohorts of the American population. In turn, assessments should function principally to help actualize such human capital production. Such a focus would shift away from the preoccupation with outcomes assessments, and assessments as predictors of subsequent competence, to increased emphasis on assessments of a more formative kind. Such assessments would be more localized, and even situated to a good degree inside classrooms or other (putatively) capacity building settings. The argument would also be that assessment is done to a large but not exclusive extent, to guide the preparation of individuals, and from diverse backgrounds, to reach and even exceed the high performance expectations that society will require of them in
the years and decades ahead. Viewed in this way, outcomes assessments will serve
more so as confirmation or disconfirmation that the preparation process has been
successfully executed. Moreover, the range of knowledge, skills and abilities
examined in outcomes assessments should reflect the complexities of competencies
needed by people for full participation in the increasingly diverse social fabric of
American society, and in a globally interdependent world; and as they confront the
rigors, roles and responsibilities in the 21st century. This would require rethinking
some of the conventions of assessment, and the criteria for what high quality
assessments look like. The phenomenon captured in this line of reasoning is what
should be assessed. To do the latter would necessitate movement away from seeing
people with presently "non-mainstream" social, racial and cultural backgrounds
exclusively in pejorative terms, but as encompassed in a new, more inclusive
notion of humanity. Otherwise, it would be argued, America will not meet the
demanding manpower needs of the 21st century. From this stance then, achieving
equity is essentially a byproduct of the quest for pervasively high-level human
capacity building; that is for excellence.

From a human capital production stance, the onus is on assessment to
illuminate the potentialities of and/or suitable preparation processes for people
from diverse backgrounds In these ways, their identities and the experiences
associated with these backgrounds either are construed as important, construed as a
source of assets that can be capitalized upon in the preparation process, or seen as
making more clear the diversity in outcomes that assessments must measure and
measure well. On this latter point, in turn, such would thereby broaden the range of
possibilities for which excellence is (can be) ascertained. It is also plausible that
the successful pursuit of a human capital production agenda will in turn address
successfully and relatively more permanently the intended goals of the social
justice agenda.
In all then, the evidence, arguments, and reasoning advanced in this chapter attempt to make the case for the primacy of the human capacity building approach for future assessment endeavors; or at the very least for assessment endeavors in the realm of formal education. It is also advanced in this chapter that such a primary function for the assessment enterprise would only make sense if we also re-imagine or re-envision what should be the function and purpose of formal education in the American social order in the years and decades ahead. For far too long it would seem, education has served the purposes of sorting, classifying and selecting students, and of identifying existing student abilities. Instead it would seem that the schooling enterprise should allot at least equal (if not more) weight to the cultivation and advancement of student potential, and the actualization of pervasively high levels of student intellectual, technical and civic participation competence.
References


