21st Century Competencies in Light of the History of Integrated Curriculum

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Integrated or interdisciplinary curriculum (IC) is an effective and relevant way to teach the 21st century competencies and to apply the transdisciplinary skills necessary for solving complex global problems. We review the underpinnings of both traditional and progressive education and past periods of implementation of IC in order to understand its history. Multiple definitions of IC are identified on a continuum. Reasons to dismiss the continuum are also offered. Two periods when IC was implemented in a consistent way in the United States are explored: the progressive era from 1919 to 1955, and the late 1980s and early 1990s. Similarities in each era are identified such as progressive principles of teaching and learning. Differences are also considered in basic assumptions held by curriculum developers of the day with the 1980s and 1990s lacking the 1930s deep social purpose of teaching for a democratic society. The socio-political context is visited to understand the beginnings and endings of these eras. The current educational context is then viewed from a global context. We see a landscape in which accountability and disciplines are counterbalanced by a global redefinition of what's worth knowing and a shift toward interdisciplinary competencies/skills/capabilities, well-being and teaching the whole child. Indeed, this is happening in places around the planet such as Finland. The ideas are reminiscent of the 1930s progressive movement—a time of experimentation when student interests and needs more than disciplinary content shaped an IC. We propose that the current global conversation can offer conceptual cohesion to encourage and support the implementation of IC and can act as a proxy for the Progressive Education Association that guided practitioners from 1919 to 1955.

Keywords: integrated curriculum, interdisciplinary curriculum, progressive education, twenty-first century competencies, history of integrated curriculum

INTRODUCTION

The 21st century competencies are recognized internationally as crucial skills for students, and integrated/interdisciplinary curriculum (IC) is recognized as an effective teaching/learning model to address these skills. IC reaches back to the Progressive Era of the 1930s. How can IC's history inform curriculum design for the 21st century?

This article explores two periods when IC was implemented in a consistent way: the progressive era from 1919 to 1955, and the late 1980s and early 90s. We focus on the United States although we acknowledge that progressive education and IC were happening elsewhere such as in Europe. We seek to understand the historical dynamics of IC’s past and the lessons it might have for 21st century educators. We end by exploring the emerging global rationale for IC in a 21st century context.

The long and distinguished history of IC has been largely ignored (Beane, 1997; Wraga, 1997; Humes, 2013). This history involves an understanding of traditional and progressive education.
Philosophically and practically, each takes a fundamentally different view of teaching and learning. Within themselves, the terms “traditional” and “progressive” encompass diverse interpretations.

The goal of the traditional approach is to pass on the inherited knowledge of society. The traditional paradigm organizes knowledge into defined disciplines reaching back centuries. The teacher’s role as a subject expert is to support students’ acquisition of disciplinary knowledge, most often through the transmission model with the help of an authoritative textbook. Memorization and rote learning are key strategies; students demonstrate their learning through correct answers on standardized and common tests. The traditional model is well entrenched, and continues to thrive worldwide (Adolfsson, 2018).

A progressive curriculum strives to develop skills and dispositions so that students may realize their individual personhood and contribute to the improvement of society as engaged citizens. Because of the diversity of views and practices, even the Progressive Education Association (PEA) struggled to define “progressive” (Kridel and Bullough, 2002), but there is general agreement about its spirit. Rather than as passive receivers of knowledge, this student-centered approach sees students as active constructors and interpreters of knowledge. Thus, problem-solving and critical thinking are two of a constellation of cognitive skills foregrounded by a progressive approach. Although there is no blueprint, inquiry arising from student interest is a key component. Progressive educators are concerned with students becoming good learners but also good people; progressive curriculum builds on community, collaboration, social justice, deep understanding of real-world problems and active learning (Kohn, 2008).

Curriculum integration and progressivism should not be conflated; indeed, progressive educators need not adopt IC. Nevertheless, teachers attracted to IC are usually predisposed to a progressive approach, and the history of IC is closely tied to progressivist education (Applebee et al., 2003).

DEFINING INTEGRATED CURRICULUM

The ambiguity of definitions for IC has troubled researchers and hindered practitioner understanding (Klein, 1990; Czerniak et al., 1999; Pang and Good, 2000; Hurley, 2001; Lenoir and Hasni, 2010). For some, integration within the subject areas itself or intradisciplinary curriculum is considered to be IC. For example, science would be taught as a general science rather than, better than (Chrysostomou, 2004; Rennie et al., 2012). However, presenting integration as a continuum in any form has raised concerns. One objection is that a continuum oversimplifies the complexity of IC and ignores its history (Hargreaves et al., 1996; Dowden, 2007, 2011). Beane (1997) viewed his “integrative” model (what we would describe as “transdisciplinary”) as the only truly integrated one. He and Hopkins (1935, 1937) perceived models on the continuum to be only a rearrangement of subject areas and without acknowledging the centrality of the students and the broader social purposes of progressivism (Dowden, 2007).

The next section of this article considers the historical conceptions and implementation of IC over the last 100 years.

PAST ITERATIONS OF INTEGRATED CURRICULUM

Foundations of Progressive Education in United States

The history of IC is linked to the progressive movement of the 1930s and beyond (Wrightstone, 1935; Klein, 1990; Beane, 1991; Vars, 1991). One of the main tenets of progressive education was that knowledge was not bound by disciplines. As Dewey said in 1900, “Relate the school to life and all studies are of necessity correlated” (Dewey, 1915/1900, p. 32).

The term “integrated curriculum” was not used formally until 1931, but the antecedents for the concept were emerging long before this. The seeds of progressive education were planted by Colonel Francis Parker whose school offered a dramatically
different approach to teaching, learning, and assessing. He emphasized teaching for mental, physical, and moral growth of the whole person (Cooke, 2005). Parker promoted collaborative group learning, student-centered activities, and no testing. John Dewey, considered the father of the American progressive education movement, encouraged curriculum based on inquiry. Rather than beginning with disciplines, curriculum should begin with students’ questions. These should be answered by applying systematic problem-solving procedures—the scientific method—that would connect to a real-world understanding of the disciplines (Dewey, 1938/1993). Dewey (1916) believed in social integration and that the purpose of education was to cultivate a democratic society.

In 1918, Dewey’s student William Kilpatrick published The Project Method (Kilpatrick, 1918). Kilpatrick argued that students should apply a problem-solving method to integrate academic, moral and ethical learnings in order to complete a complex purposeful project. Because the project was personally relevant to the student, learning would be lasting and meaningful compared to the transient memorization required by the traditional model.

By the 1930s, the term “integrated curriculum” had become meaningful and loosely associated with the progressive movement. Initially, integration was deemed acceptable for elementary school education only, until Wrightstone (1935) challenged this view. He closely matched 180 students in Grades 4 to 6 who went to either a traditional subject-based school or a progressive school with a unified curriculum. He found that “The pupils in the new type schools were slightly superior in achievement to the pupils in the standard-type schools” (p. 586) on achievement tests in reading, language and arithmetic, indicating that an integrated approach did not jeopardize academic success. The results of Wrightstone’s study would be mirrored by the Eight-year Study of the same era.

1933–1941 the Eight-Year Study
The interest in fostering and sustaining the ideals of a democratic society found fertile ground in the project that became known as the Eight-year Study. Curriculum scholar Pinar (2010) wrote that “this remarkable undertaking remains today as perhaps the major school-based curriculum research project in the history of U.S. curriculum studies” (p. 295).

The Great Depression (1928–1939) had resulted in high unemployment and an enormous increase of high school students. There were three types of students: 20% in a college preparatory program, 20% in a vocational program, and 60% non-college bound students who needed “life-adjustment education, to adjust them to life in general” (Tyler, 1989, p. 194). To address this new situation, the Eight-year Study was conceptualized by the PEA and funded with over a million dollars by the Rockefeller, Carnegie, and other foundations. Widely respected educator Ralph Tyler headed the evaluation team. The Eight-year Study had two aims: (i) to create programs that would be relevant for the 60% of non-college bound students and “to find, through exploration and experimentation, how the high school in the United States can serve youth more effectively” and (ii) “to establish the relationship between school and college that would permit and encourage reconstruction in the secondary school” without risking students’ chances of college acceptance (Aikin, 1942, p. 116).

According to Tyler (1989), more than 30 schools, including two school systems, from across the United States took part. Schools were rural and urban, large and small, private and public. The teachers were no less variable. The common thread was the commitment to enact the progressive principles even though educators could not agree on what those were (Kridel and Bullough, 2002, p. 69). With no prescribed curriculum, teachers were free to innovate in ways that they believed best served students. Key principles grounded their work. Lessons needed to be personally meaningful and involve the whole person. Students needed to develop a social awareness and learn experientially how to be citizens in a democratic society. To varying degrees, the Eight-year Study schools emphasized student-centered learning that incorporated the hallmark aspects of progressive education: hands-on learning, valuing diversity,
coherent/integrated curriculum, inquiry and problem solving, critical thinking, collaboration, taking social responsibility, community engagement, and democratic values (Lipka et al., 1998; Kridel and Bullough, 2002, 2007; Bullough and Kridel, 2003).

Some schools were cautious in exploiting their new freedom and not all schools adopted an integrated approach. However, the more innovative schools organized curriculum around themes and issues relevant to students. Aikin (1942) provided an extensive list of topics grouped under broad categories such as personal living, social-civic relationships, and economic relationships. In one classroom, the student could learn how to appreciate art, improve one's poise, and analyze sources of information that influence public opinion (Aikin, 1942, pp. 58–61).

How did students fare under the study? Extensive data were collected including achievement on standardized tests, student interest inventories and psychological tests (Kridel and Bullough, 2002; Kridel, 2010). Data indicated that the Eight-year students were not handicapped by their innovative curricula (Aikin, 1942, p. 117). A further follow-up study investigated college achievement. Success was determined by comparing 1,475 matched pairs on 18 variables. Students from the Eight-year Study schools performed academically as well as, or better than, their counterparts from traditional programs. The Eight-year students outperformed their counterparts in time management, resourcefulness, problem-solving, degree of intellectual curiosity, drive, and active concern for world events. As well, “the experimental group was also fully as effective in their employment” (Tyler, 1989, p. 198). Student records from the six most experimental schools that actually implemented IC were compared with student records from traditional schools. The 323 experimental students substantially outperformed their peers on virtually all measures of college success (Kridel, 2010).

Watras (2006) listed several factors that contributed to the decline of progressivism: closure of some participating schools, leadership and staff turnover, lack of professional development and resources, and the rise of a more conservative attitude in the face of war. Beane (1997) also added that many teachers were frightened by this approach. However, the Eight-year Study and progressivism had a lasting impact on subsequent decades (Kridel, 1998).

1940s and 1950s Core Curriculum—The Salad Days
Integrated Curriculum did continue into the 1940s and 1950s. It was most frequently identified as general education, unified or core. “In retrospect, these were the salad days of curriculum integration” (Beane, 1997, p. 29). Core programs proliferated across the United States. Beane (1997) claimed that over 50% of junior and senior high schools were involved in block-time non-separate subject approaches programs, although problem-centered programs were less common.

The Virginia Curriculum Revision Program from 1932 to 1952 is one example of the era’s large-scale IC effort (Kliebard, 1995; Dowden, 2007). In 1931, Hollis Caswell introduced curriculum planning on a matrix. The vertical axis identified cultural values and aspects of everyday life that replaced disciplines. The horizontal axis identified themes of student interest. In 1937, when 85% of Virginia’s teachers were implementing this program, the state surveyed teachers and parents and collected achievement data. The program was considered a “great improvement” in elementary schools over the discipline-based curriculum used previously. However, there was less enthusiasm for it in the high schools which Caswell blamed on the resistance of teachers to change from subject specialists to core teachers.

Mickelson (1957) summarized several studies comparing achievement of core curriculum students to that of students in traditional programs. The studies considered academic achievement as well as social attitudes and behaviors. The findings replicated those of the Eight-year Study. Thus, Mickelson concluded that “the most promising educational development for meeting the needs of adolescents today is the core curriculum” (p. 158).

Despite its popularity and evidence of its effectiveness, core programs faded into obscurity in the 1960s in the wake of the Cold War competition for scientific and technological superiority. Innovation was sacrificed to a fearful retreat to conventional disciplinary structures (Wraga, 1992, 1997; Watras, 2006). Bruner’s (1960) The Process of Education ensured that disciplinary organization was optimal for learning. By the 1970s, Bruner (1971) had reversed his position, preferring a curriculum grounded in contemporary problems, but it was too late. There were few ventures into integrated territory until the 1980s and 1990s.

1980s and 1990s—The Wild Frontier
A concern for relevancy and low student engagement in the 1980s and early 1990s prompted a resurgence of interest in IC. The influential Carnegie Report (1989) and the California State Department of Education Report (1987) reported that middle school students were unmotivated and that alternatives to the disciplinary organization should be implemented. Emerging brain research indicated that people learn better by making connections rather than by memorization (see, e.g., Sylwester, 1995; Caine and Caine, 1997). In addition, digital technology and the Internet were changing the world. The U.S. Department of Labor (1991) identified the skills needed for the future: literacy, basic computation, creative thinking, learning how to learn, and decision-making. Productive citizens would need the interdisciplinary life skills required by the changing workplace. Although the context was different, this need was similar to the life skills students needed in the progressive era.

State education departments began exploring IC and providing professional development for eager teachers. Dissemination was multi-pronged and lively through major national conferences, whole issues of popular publications (e.g., Education Leadership, Volume 49, Issue 2, 1991), and influential experts such as Jacobs (1989), Fogarty (1991), Drake (1993, 1998), and Kovalic (1994). The atmosphere was vibrant, but rather incoherent.

Erickson (1995, 2008) advocated designing IC through Big Ideas in the form of broad-based concepts rather than factual
content, and interdisciplinary rather than disciplinary skills. For her, a concept-based curriculum assured depth. Erickson’s work was grounded in the work of Taba (1962). Their ideas remain central to 21st century curriculum planning.

Most variations of IC were based on a progressive/constructivist philosophy with a focus on student inquiry and choice, collaborative work, and the teacher as a facilitator. As a summative assessment, most iterations added a rich performance assessment task which could be likened to Kilpatrick’s project method.

The Humanitas project is just one of many examples of an interdisciplinary program that flourished in this period. Implemented in various schools, Humanitas was theme-based (e.g., Making a Place for All: The Immigrant Experience) and used a collaborative team-teaching approach. The program emphasized conceptual development, critical thinking, and communication skills. Humanitas was evaluated by UCLA’s Center for the Study of Evaluation which found that Humanitas students were stronger conceptual thinkers and communicators than their peers from traditional programs (Aschbacher, 1991).

Beane (1997) believed, like his progressive antecedents, that students should design their own curriculum with their teachers. Beane advocated that curriculum should start with students’ answers to the questions: What questions and concerns do you have about yourself, and what questions and concerns do you have about your world? Such questions are reminiscent of those that inspired curriculum under the Eight-year Study.

In the closing decades of the 20th century, IC was evident in various curriculum experiments such as team teaching, block scheduling, and student activities (Vars, 1991). There was an abundance of research at this time but much of it was anecdotal from enthusiastic teachers or revolved around confusion about definitions or were descriptive “how-to” articles. There was no scheduling, and student activities. There was an absence of solid research, territorial wars among subject organizations, logistical difficulties such as scheduling, and parental longing for the standardized reporting they understood.

A more powerful movement sounded IC’s death knell. The age of accountability took hold across the globe. Standardized testing refocused attention on the basic subjects of literacy, math, and science (Lam et al., 2013). Educational jurisdictions developed disciplinary standards (competencies, expectations, capabilities, outcomes). Pacer guides shaped practice. Big data allowed for comparisons among students, classes, schools, regions, states, and internationally. A new era had begun, and silence descended around IC.

21st CENTURY CURRICULUM

OECD captured the mood of the early decades of the 21st century.

We are facing unprecedented challenges... driven by accelerating globalization and a faster rate of technological developments... The future is uncertain... Schools can prepare students for jobs that have not yet been created, for technologies that have not yet been invented, to solve problems that have not yet been anticipated... Students will need to develop curiosity, imagination, resilience and self-regulation; they will need to respect and appreciate the ideas, perspectives and values of others... Their motivation will be more than getting a good job... They will also need to care about the well-being of their friends and families, their communities and the planet. Education can equip learners with agency and a sense of purpose, and the competencies they need, to shape their own lives and contribute to the lives of others (OECD, 2018, p. 2).

Current Drivers of IC

Alongside the accountability agenda inherited from the 1990s came an international call for educational reforms that could deepen learning and address the complexity, disruptions, and fast-changing technologies of the new century (Hargreaves and Shirley, 2009; Hattie, 2012; Fullan, 2013). Inquiry-based, project-based/problem-based learning and IC were and continue to be pedagogies put forward to meet the challenges of relevancy.

There are multiple drivers encouraging educators to reconsider IC in the 21st century. One is the re-conception of knowledge and an international rethinking about what is worth knowing. Siri and Google have made the memorization of disciplinary content obsolete. Internet research on a topic such as war will yield interdisciplinary results. The real world is not bounded by disciplines. A knowledge base in the disciplines is not enough. The learning and life skills of the 1930s, 1980s, and 1990s have been revived in frameworks for 21st century skills/competencies.

There is growing international consensus on the importance and the definition of the competencies of 21st-century learning (OECD, 2005, 2017; EU, 2006; Dede, 2010; Voogt and Roblin, 2012; Brooks and Holmes, 2014; Partnership for 21st century skills, 2015; New Zealand Ministry of Education, n.d.). These include critical thinking, communication, collaboration, problem solving, creativity, character education/ethics and citizenship, intercultural competency, global awareness, agility/adaptability, as well as computer and digital technological capability.

1http://www.ericdigests.org/2001-1/curriculum.html
A second driver of IC is global wicked problems. The concept of problem-solving has broadened beyond its pre-21st century roots. A wicked problem is ill-structured, ambiguous (Rittel and Webber, 1973) and almost impossible to solve (Klein, 2004, 2014; Niculescu, 2010). The coronavirus pandemic with its tangled and interconnected health, economic, privacy/surveillance and social justice consequences is such a problem. Solutions, if they exist, are transdisciplinary. Students need experience in transdisciplinary problem-solving to be equipped to live with “wickedness” of the 21st century context.

A third driver is the recurring issue of engagement. Surveys have reported student disengagement (Gallup, 2014; Jaspers, 2014). IC increases student engagement (Lattuca et al., 2004; Alexander et al., 2008; Catterall et al., 2012; Guthrie et al., 2013; Lam et al., 2013).

IC engages teachers too. Despite initial struggles moving out of their disciplinary comfort zone (Gunn and King, 2003; Smithrin and Upitis, 2005; Applebee et al., 2007; Fenwick et al., 2013), teachers come to appreciate the opportunity to collaborate with colleagues and to explore new subjects and pedagogy (Ching, 2009; Lardner and Malinarch, 2009; Weinberg and Sample McMeeking, 2017). An added bonus is efficiency. In overcrowded and fragmented curricula, IC can provide coherence and reduce duplication (Hinde, 2005; Adolfsson, 2018). The pan-disciplinary competencies listed above offer an amenable way to knit together disciplinary content.

Current Versions of IC

Versions of IC exist in current trends. Inquiry is a skill that drives most non-traditional curriculum design (Drake et al., 2014). Structured inquiry and experiential learning take us back to the central tenets of progressive education. In the 21st century context, project-based learning (PBL) is a pedagogy that lends itself to an interdisciplinary approach because its underlying philosophy is student-centered, inquiry based, and oriented to big picture concepts and skills applied to real world issues. The Buck Institute for Education\(^2\) offers rich examples of PBL in the classroom. Similarly, Finland’s phenomenon-based learning follows this path (Christou, 2016). Finnish students in Grades 1–9 work on 9-week long, interdisciplinary projects prompted by their own questions (Mathewson, 2019). This is similar to Kilpatrick’s project method in 1918. The positive outcomes such as depth of learning, thinking skills, and engagement, achieved through projects are well documented (see Thomas, 2000; Hmelo-Silver et al., 2007; Holm, 2011; Vega, 2012a).

In the United States, many states are using the Common Core State Standards (CCSS) and the Next Generation Science Standards to design curriculum for literacy and numeracy K to 12. The intent of the CCSS is to increase accountability across states and ensure students acquire the skills for life success. Controversial issues such as testing aside, the CCSS actually can be interpreted in ways that encourage IC as illustrated in Creating standards-based integrated curriculum: The

\(^2\)https://www.pbworks.org

Common Core Standards Edition (Drake, 2012). The standards themselves allow for flexibility and can be taught in relevant and creative ways. As well, the CCSS provides literacy standards for history/social studies, science and technical subjects indicating that literacy is the responsibility of teachers of different subject areas not just of the language teachers—a door to IC.

Other ways in which integration occurs include the following: STEM and STEAM (Satchwell and Loepp, 2002; Vega, 2012b; Miller, 2014; MacDonald et al., 2019); the infusion of literacy (Cervetti et al., 2007; Alvermann et al., 2011; Romance and Vitale, 2012a,b; Vega, 2013); the infusion of the arts (Upitis, 2011; Catterall et al., 2012; Riley, 2013); and the infusion of environmental responsibility (Blair, 2009).

Challenges to Implementing IC

So far, widespread implementation of IC has been hampered by practical and theoretical challenges. These include ambiguity around definitions, issues with measuring interdisciplinary knowledge and behaviors, logistics such as scheduling and reporting protocols, territorial battles, teacher identity as a subject expert, and resistant educators.

Dissenting voices question the prominence of the 21st competencies at the expense of prescribed disciplinary content (Priestley and Sinnema, 2014). A concern is the economic undertone expressed in the rationales for a competency-based curriculum. Critics of this neoliberal view say that in emphasizing students’ need for an education that prepares them to compete successfully in the workplace, students become the human capital engines of a nation’s GDP (Dede et al., 2005; Adolfsson, 2018).

Another concern is related to equity. Social realists argue for the importance of universal access to the external, objective, authoritative knowledge of established disciplines—what Young (2010) calls “powerful knowledge” (Young, 2010; Rata, 2012). When curriculum is premised on students’ experiential knowledge, the risk of limitation becomes especially acute because it disfavors those with low social and cultural capital. Social realists do not argue for a retrenchment of fixed disciplinary content—a “Future 1” scenario; rather, they propose a “Future 3” scenario that sits between a boundless “Future 2” and an overly-narrow Future I (Young and Muller, 2010).

Benefits of IC

Integrated Curriculum leads to positive learning outcomes and personal development. The literature in the last two decades has arrived at the conclusion we have heard before: students in IC programs perform academically as well as, and sometimes better than, their counterparts from traditional programs (Brough and Pool, 2005; Hinde, 2005; Erickson, 2008; Kelleher, 2008; Rotherham and Willingham, 2009; Drake, 2012; Griffin et al., 2012; Drake and Reid, 2018). As well, a rich body of literature attests to IC’s benefits in the affective domain including self-regulation, prosocial attitudes, emotional health, creativity and motivation (see, for example, Cordogan and Stanciak, 2000; Edwards and Willis, 2006; Consortium of National Arts Education Associations, 2002; Marshall, 2005; Trent and Riley, 2009; Kakas, 2010; Durlak et al., 2011; Catterall et al., 2012).
CONCLUSION

The Global Conversation as Proxy PEA

Conditions in the 21st century are ripe for interdisciplinary approaches. In many ways, today’s educational reform is reminiscent of the early 1930s. Today, as then, reformers are seeking ways to offer engaging relevant curriculum in an accountable manner. In the 1980s and 1990s, curriculum experts created IC models reflecting their individual personal philosophies. Neither accountability nor a focus on democratic values was a high priority. We suggest that inconsistency resulted because educators did not realize that there were historical precedents and because there was no proxy PEA to provide guidance and coherence.

Today, educators are not guided by history in particular, but rather by an emerging global conversation about curriculum innovation that emphasizes 21st century skills/competencies; we suggest that this conversation can act as a 21st century-version PEA. Indeed, Kamens and McNeely (2009) see the emergence of a “world educational ideology” (p. 9) and Sellar and Lingard (2014) see OECD and its PISA testing as a new epistemological and infrastructure of global governance.

In this global conversation, a consistent vision is emerging. The 21st century is stimulating a student-centered culture of learning that harkens back to earlier progressive movements. Personalization, technology, and universal design principles are revamping instruction. Assessment practices are shifting in emphasis from external summative testing to localized, formative feedback for improvement. The teacher’s role is shifting from content expert to learning facilitator (Dede et al., 2005; Friesen and Jardine, 2014; Partnership for 21st century skills, 2015).

Aligning with the conversation, frameworks from external organizations and educational jurisdictions, in both public and independent contexts, are remarkably alike and go beyond academic achievement to learning how to be and how to be in community. Overarching frameworks focusing on competencies have been developed, for example, by external global networks such as the Center for Curriculum Reform (Fadel et al., 2015) and The World Economic Forum (2016). One of the most influential external organizations is the OECD (Grek, 2009; Kamens and McNeely, 2009; Munch, 2014). Cognitive, health, and social emotions form the foundational umbrella for OECD’s (2018) compass for 2030. Along with competencies, the compass references well-being, student agency, and connections with community.

Internationally, many jurisdictional curriculum documents present a unifying framework that acts as an umbrella over all disciplines. The 21st century competencies are infused into every subject and every grade; see, for example, Singapore, South Korea, Finland, Australia, and Alberta (Drake and Savage, 2016). Also evident in these frameworks is an overarching concern for the whole child. For example, Hong Kong’s unifying framework calls for perseverance, respect for others, responsibility, self-management, and commitment to be taught across all subject areas in all grades (Drake and Savage, 2016). The International Baccalaureate Organization (2012) has a unifying framework for its transdisciplinary primary program that involves over 4000 independent schools across the globe. This framework is focused on a learner being not only knowledgeable, inquirers, creative and critical thinkers but also reflective, caring, principled, and balanced. New Zealand is integrating local contexts reflecting Indigenous cultures with international competency frameworks (New Zealand Ministry of Education, n.d.).

These frameworks cry for IC in order to weave together their transdisciplinary aspects. The emerging vision is a hopeful work in progress that attempts to reconcile seemingly contradictions through a both/and perspective: both accountability and whole child priorities; both disciplinary and interdisciplinary; both content and skills. IC offers a context to accomplish these resolutions. For example, evidence in this article indicates that academic achievement for students in any era who experience IC has been at least equivalent to, if not better than that of students in traditional programs (accountability), with the bonus of prosocial attitudes, better attendance, internal motivation, and enjoyment of school (whole child).

Little (2013) has said there are lessons for 21st century educators in the recurrence over IC’s history of progressive principles. However, he noted that later versions of IC lack the 1930s grounding in social justice and democracy. We suggest that social responsibility and citizenship act as a proxy for the progressive 1930s democracy. Current global frameworks do recognize developing citizenship and national identity in whatever ideology applies to them. These principles—rooted firmly in the past ethical foundations—are not to be forgotten as the global educational networks continue to collaborate and influence curriculum design that reflects both national and global priorities.

For us, the 21st century context encourages a rethinking of what has been rethought for one hundred years about IC. We urge educators to consider the parallels among past eras and find in them the way forward for future curriculum. As it has in the past, we believe IC presents an engaging, relevant, and effective model for curriculum today.

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SD and JR contributed equally and collaboratively to the research and writing of this work and approved the submitted version.

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