

Reinvigorating middle-years teacher education in Aotearoa New Zealand

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Abstract

This article argues the case for reinvigorating teacher preparation for the middle years in Aotearoa New Zealand (NZ) by establishing a specialised focus on middle-level education (Years 7–10). The article draws its data from a doctoral research study (Shanks, 2010) that interviewed teacher educators to investigate the extent to which developmental needs during early adolescence are accommodated in teacher education programmes in NZ. The study revealed a general lack of knowledge or understanding among participants with respect to the well-documented developmental and educational needs of young adolescents. The article concludes by making three recommendations to improve the current situation.

Keywords: young adolescents; middle years; teacher education.

Introduction

Over the past decade, concerns have mounted about the quality of education experienced by young adolescents in Aotearoa New Zealand (NZ) (Education Review Office (ERO), 2001, 2003). Attitudinal and student engagement data from a range of NZ sources have provided abundant evidence that students' attitudes to schooling tend to deteriorate in the middle years (Years 7–10) (Cox & Kennedy, 2008; Durling, 2007; Gibbs & Poskitt, 2010). Crooks (2008) suggested that negative trends within data from these years reflect the limited range of subject choices in the middle years as well as "the extensive use of whole-class teaching methods" (p. 7). Students in communities of low socio-economic status have been shown to exhibit significantly lower rates of academic attainment and classroom engagement and, since Māori and Pasifika students are over-represented in socially disadvantaged communities, they are often at risk (Bishop, Berryman, Tiakiwai, & Richardson, 2003; Dowden, Bishop, & Nolan, 2009).

While internationally, particularly in the USA and Australia, the specific-stage needs of early adolescence (10–15 years old) have been recognised by the establishment of specialised middle-level teacher education, in NZ the particular educational needs of young adolescents have been largely ignored (Dowden et al., 2009; ERO, 1994; Stewart & Nolan, 1992). The two-tiered primary/secondary system of schooling in NZ fails to recognise the pivotal nature of early adolescence as a distinct stage of human development requiring a nuanced approach to learning and teaching (Nolan, Kane, & Lind, 2003). The net result is that students in Years 7–10 are uncomfortably sandwiched in between the primary and secondary years of schooling; where Year 1–8 students are taught by primary teachers and Year 9–13 students are taught by secondary teachers.

Although the Ministry of Education (MoE) has commissioned middle-level research projects that have provided substantial evidenced-based data (for example, Dinham & Rowe, 2007; Durling, Ng, & Bishop, 2010; Gibbs & Poskitt, 2010), its approach to improving educational outcomes for young adolescents has been largely serendipitous. The launch, however, of *The New Zealand Curriculum* (NZC) (MoE, 2007), which features a specific 'Learning Pathway' for Years 7–10, has given proponents of middle-level reform grounds for renewed optimism. The Learning Pathway for Years 7–10 challenges the hegemony of the two-tiered schooling system in NZ because it recognises officially the middle years as a unique developmental period, distinct from the two other Learning Pathways of childhood (Years 1–6) and later adolescence (Years 11–13). In addition, the national curriculum document mandates that all schools catering for Year 7–10 students provide high quality schooling that is developmentally responsive to the specific educational needs of young adolescents. This raises an important question concerning how teacher education in NZ prepares teachers to implement the philosophy and intent of the national *Curriculum* with respect to Years 7–10.

This paper draws its data from a doctoral research study (Shanks, 2010) which was the first study to systematically investigate the provision of middle-level teacher education in NZ. The study identified several barriers to the implementation of specialised middle-level teacher preparation in NZ. The most important, and disquieting, finding was that teacher educators in NZ institutions lack an awareness and, consequently, basic knowledge and understanding about the stage of early adolescence and, therefore, are largely unaware of the well-documented developmental needs of young adolescents. This article is limited to an exposition of this key finding.

Literature review

Developmentally appropriate learning and teaching in middle-level classrooms

Research shows that the greatest leverage for improving educational outcomes within schools is the quality of classroom teaching (Alton-Lee, 2003; Hattie, 2002), thus reform of education in Years 7–10 should include a focus on teacher education. Advocacy for specialised middle-level teacher preparation is predicated on the belief – supported by ample research evidence – that the educational needs of young adolescents are best met by teachers who have been prepared through programmes of initial and in-service teacher education that are specifically tailored to meet the needs of middle-level learners (Andrews & Anfara, 2003; Beane & Brodhagen, 2001; Bishop, 2008; Jackson & Davis, 2000; McEwin & Dickinson, 1995; National Middle School Association (NMSA), 2006; Pendergast & Bahr, 2010).

Delpit (2001) argued that “in order to teach you I must know you” (p. 211). Thus, while teacher educators in NZ have made admirable progress on improving teachers' understandings of social and cultural contexts which shape students – for example, via influential texts such as Bishop and Glynn (1999) – middle-schooling advocates also argue that teachers must 'know' young adolescents. This includes: (1)

specific knowledge and expertise connected to knowing about the developmental stage of early adolescence (see Caskey & Anfara, 2007); (2) recognising the pronounced presence of diversity among young adolescents, including a wide range of maturational differences; and (3) understanding how to accommodate developmental characteristics in designs for responsive curricula, appropriate pedagogies and authentic assessment in the classroom (Barratt, 1998; Beane & Brodhagen, 2001; NMSA, 2003, 2006). Chadbourne (2003) argued that it is the very nature of early adolescence that makes schooling to meet the needs of young people distinctive, because it is a time when many young adolescents are at risk of disengaging from formal learning. He explained that, although the generic dimensions of effective teaching are not distinctive, their application to young adolescent students is.

Teachers of Year 7–8 students widely believe that student engagement is linked to the quality of teacher–student relationships, yet NZ research shows teacher–student relationships in Years 7–10 often deteriorate substantially (Dowden et al., 2009; Durling, 2007). National monitoring also shows students' perceptions of schooling trend towards negativity in the middle years (Cox & Kennedy, 2008; Crooks, 2008; Gibbs & Poskitt, 2010). In Years 7–10 fewer students report that teachers help them do their best, treat them fairly, or praise them. Absenteeism, suspension and exclusion from school – worst among Māori learners – peaks in these years (Dowden et al., 2009).

Accordingly, middle-level teachers need to know and understand the specific physical, cognitive, social and emotional characteristics of young adolescence. Ultimately, initiatives to improve teacher–student relationships, such as Bishop and colleagues' *Te Kōtahitanga* project (2003, 2007) which has focused on improving Māori achievement, are insufficient unless they also respond to young adolescents' developmental needs.

Curriculum, pedagogy and assessment in the middle years

Responsive educational provision in the middle-level classroom is underpinned by principles of social constructivism (Vygotsky, 1978). Prior knowledge and experiences are valued and used as contexts for further learning (Beane, 1997). Implicit within this orientation is recognition of the specific developmental characteristics of young adolescent learners. A socio-cultural approach to teaching is inclusive of students' cultural backgrounds and repositions them as members of a learning community where knowledge is constructed through negotiation and dialogue (Groundwater-Smith, Mitchell, & Mockler, 2007).

Best practice for curriculum construction in the middle years implies designs that are relevant, challenging, integrative, exploratory and responsive to the interests and needs of young adolescents (Beane, 1997; Dowden, 2007; NMSA, 2003; Pendergast & Bahr, 2010). Such curriculum designs utilise themes drawn from the concerns and questions of students as the basis for study, rather than predetermined prescriptions of content knowledge (Beane, 1997). A responsive curriculum positions students at the centre of the learning process, with teachers assuming the role of facilitators. The focus on socially significant issues stemming from real life contexts allows young

people to develop an increased sense of responsibility and autonomy (Beane & Brodhagen, 2001). Indeed, any form of curriculum where there is a focusing of energies and ideas around 'big ideas' that facilitate a sense of the whole, rather than a fragmentation of concepts, is more meaningful to young adolescent students. In addition, the process of collaborative construction of curriculum by teachers and students is a powerful means of engaging young people in their learning and demonstrating that their interests, concerns and opinions are valued (Beane, 1997; Dowden, 2007). Such curricular approaches are not without conceptual, pedagogical and practical difficulties, thus successfully catering for young adolescents' educational needs is likely to require the provision of targeted professional development on a school-by-school basis (Stewart & Nolan, 1992).

Pedagogy lies at the heart of effective middle-level classroom practice. The NZC defined effective pedagogy as "teacher actions promoting student learning" (MoE, 2007, p. 34). Jackson and Davis (2000) unequivocally stated that the primary purpose of middle schooling is to promote the intellectual development of young adolescents via learning experiences that utilise higher order thinking skills. The NMSA (2003) reasoned that a focus on thinking is responsive to changes in intellectual development at a time when young adolescents are increasingly able to communicate abstract views and engage in metacognition. The need for intellectual rigour was further reiterated in the 'Productive Pedagogies' initiative implemented in Queensland, Australia (Lingard et al., 2001). This project of teacher professional development specifically focused on enhancing student learning outcomes in the middle years by ensuring "analytic depth, intellectual challenge and rigour, critical thinking ... critical literacy and higher order analysis" (Carrington, 2006, p. 121). When utilising effective pedagogies in the middle years, teachers enable students to focus on the 'what' of learning so that the knowledge is relevant and engaging, the 'how' of learning so that they are able to make connections to their own lives, and, importantly, the 'why' so that students engage in reflection and problem-solving using real life issues (Barratt, 1998).

Effective assessment at the middle level is embedded in learning activities (Davies & Hill, 2009). Since early adolescence is characterised by maturational diversity and a wide range of reasoning ability, assessment practices must be sufficiently flexible to represent multiple perspectives. Best practice assessment at the middle level therefore includes: clear connections to classroom learning; the acknowledgement that young adolescents are becoming increasingly autonomous and reflective learners; a diverse range of assessment types including teacher-student discussion about what counts as quality; and the judicious use of digital technologies (Wyatt-Smith, Cumming, Elkins, & Colbert, 2010). Utilising such assessment practices is critical to effectively engaging middle-level students because it results in increasingly self-regulated learners.

Middle years of schooling in NZ

New Zealand has a long and chequered history of tinkering with middle-level schooling (Dowden et al., 2009). Early efforts to develop an innovative middle school in the 1920s were compromised by the Great Depression and resulted in the 1932

establishment of the Years 7–8 intermediate school staffed by primary teachers (Stewart & Nolan, 1992). Although reformers have periodically recommended a more nuanced approach to middle-level education (e.g., Beeby, 1938; Watson, 1964; Stewart & Nolan, 1992), the hegemonic position of the bi-partite primary/secondary schooling system, reinforced by the powerful primary and secondary teacher unions, has meant it has been difficult to obtain adequate support or resourcing for developmentally responsive middle schooling (Dowden et al., 2009; Nolan & Brown, 2001).

Two key reports on middle-level education in NZ argued the case for the provision of specialised middle-level teacher preparation. Twenty years ago, Stewart and Nolan (1992) argued that the literature demonstrates early adolescence is a distinct phase of human development that requires learning and teaching of a different kind from that provided by the two-tiered primary and secondary education system in NZ. The main recommendations of their report were that middle-level teachers must have an in-depth understanding of early adolescence, they need to specialise in one or more subject areas, and they should be skilled at teaching core subjects. A later report on middle-level teacher credentialing in NZ concluded with several recommendations (Bishop, 2008). Bishop's two main recommendations situated middle-level teacher preparation within primary and secondary programmes. She recommended firstly, that specific knowledge, skills and values distinctive to the middle levels should be included in existing teacher education programmes, and secondly, pilot postgraduate programmes of middle-level teacher preparation should be implemented.

The latter recommendation has been implemented by the MoE which hints at broader government support for middle level teacher education in the future. To date, numbers of enrolments in the new postgraduate teacher qualification have been modest. Serious questions remain concerning whether such courses can be staffed by academics with genuine knowledge and expertise on middle schooling, as opposed to subject-area knowledge about numeracy and literacy in Years 7–10.

In summary, the extant literature shows that young adolescents have developmental and educational needs that can only be effectively met through the provision of specialised programmes of middle-level teacher preparation. In the middle-level classroom, regardless of school configuration, learning and teaching should: (1) be underpinned by a social constructivist perspective; (2) value the diverse socio-cultural backgrounds of learners; (3) be derived from relevant, challenging, integrative and exploratory curricula; (4) utilise authentic assessment practices and procedures; and (5) employ student-centred pedagogical approaches that are developmentally responsive and promote engagement by young adolescent learners.

Method

This study utilised qualitative methodology to investigate the provision of preparation for the middle years in NZ teacher education. Case studies were used because this is suited to obtaining rich information from multiple participants in a range of settings (Creswell, 2009). An online search of teacher education programmes in NZ tertiary institutions revealed a general lack of emphasis on

specialised provision for the middle years. Since the vast majority of NZ students complete their initial teacher education programme in a university or college of education, consent to participate in the research project was sought from these institutions. Five NZ universities and two colleges of education agreed to participate. Teacher educator participants were selected from primary and secondary sectors within the participating institutions because middle-level education straddles both sectors. Teacher educators working in school support were also invited to participate because in-service professional development is an integral aspect of teacher education for the middle years. Thirteen teacher educators from the seven institutions agreed to participate in this study. Of these, five participants were in primary programmes, four in secondary programmes, and four were engaged in support to schools. Semi-structured interviews were conducted with teacher educators who volunteered to be participants (Denzin & Lincoln, 2003). The interview questions were designed to: (1) investigate the extent to which specific Year 7–10 content was incorporated in programmes; (2) gauge the degree of emphasis on developmentally responsive approaches to teaching young adolescents; (3) reveal the nature of the literature used within programmes; and (4) evaluate the quality of preparation and support provided to student teachers on teaching placement in middle-level settings.

Results

Three major themes emerged from the data. Firstly, the majority of the participants failed to recognise the stage of early adolescence and the associated principles of middle schooling; secondly, they articulated the belief that the notion of effective teaching is not based on considerations of age or developmental level but, rather, a generic response to the needs of all learners; and thirdly, the participants with advisory roles believed the provision of in-service support for middle-level contexts is problematic.

Teacher educators' beliefs about middle schooling

The participants expressed a range of beliefs in relation to middle-level education. Three of the five primary teacher educator participants did not recognise early adolescence as a distinct developmental stage or the concept and philosophy of middle schooling. One participant stated:

My feeling is that teachers need to be teachers. Now obviously, teachers need to pay attention to the age of learners ... and development levels and maturation like the social development of their learners. But I think that's true of any age group, and I don't see young adolescents or pre-adolescents, or whatever you call them, as being in any way different from a teaching point of view.

This participant's comment implied a belief of a 'one-size-fits-all' approach to classroom provision. The comment is inherently contradictory because it emphasises the importance of the teacher understanding learners' needs from a developmental perspective but, at the same time, it fails to acknowledge that early adolescence is different from other developmental stages.

At the opposite end of the spectrum, however, another primary teacher educator reflected:

I just think there's not enough recognition, I guess, that the middle years are a separate developmental stage. Recognition of middle level education is one of the primary planks of preparing teachers to teach in middle level education. There's got to be recognition of the philosophy. I'd also like in our own primary programme to see more courses ... which recognise that teaching young adolescents is a different process and requires a different set of skills, content knowledge and approach than teaching at the primary level.

Throughout the interview, this participant argued that early adolescence should be recognised as a differentiated group and expressed the need for more NZ research to facilitate this.

The three secondary teacher educator participants expressed a range of similar beliefs, although their responses tended to reflect a greater awareness of issues relating to middle-level education. Their comments, however, were focused on Year 9–10 students, even though sweeping changes to school configurations in some regions in NZ have resulted in large numbers of Year 7–8 students being housed in Year 7–13 schools. One participant stated that she believed students in the middle years go through a distinct developmental phase, whereas the other two participants referred to early adolescence as a 'progression'.

Teacher educator's beliefs about responsive practice

The philosophy of middle schooling is predicated on teachers having in-depth knowledge and understanding of the developmental needs of young adolescents so that they are able to plan and implement classroom programmes that are engaging and responsive. In response to interview questions focusing on how student teachers are prepared for teaching young adolescents in Years 7–10, the participants in both primary and secondary programmes consistently referred to a generic notion of 'effective teaching', espoused within their programmes, as the foundation for student teachers' understandings concerning responsive practice in the middle-level classroom. A primary teacher educator explained:

Well, that's what I like about this degree, because good teaching is good teaching. So we're teaching [student teachers] a set of principles ... about a lot of different things, aspects of teaching, and it doesn't matter really if the kids are 5 or 15 ... Generally the principles ... apply across the board.

The participants repeatedly identified the generic principles of effective practice espoused in the NZC (MoE, 2007) and Alton Lee's *Quality Teaching for Diverse Students in Schooling: Best Evidence Synthesis* (2003) as being responsive to middle-level learners. The primary teacher educators stressed the importance of socio-cultural theories within their respective programmes. One stated:

We spend a lot of time talking about Bronfenbrenner and ... the notion of the systems that are working around kids. Students should

have a good [theory of education] underpinning what they're doing in the classroom because that's a significant part of their education studies.

As they explained how their programmes cater for the middle level, the participants repeatedly revealed their reliance on associate teachers to model effective practice during student practica in middle-level settings. One primary teacher educator reflected:

I guess the most powerful thing is for [student teachers] to see effective teaching with this age group. We provide them with a general set of strategies, tools and approaches which are going to allow them to work at any level but the thing that's going to make the most difference is if they're working with effective teachers while they're on teaching experience. In the end, that's the thing that really makes the difference ... sometimes I get a wee bit disappointed with the quality of some of the teaching and that our students are not seeing best practice.

A secondary teacher educator echoed these concerns:

Most of the curriculum is school-based in our programme. Most of the students go out into schools where teachers are their curriculum lecturers and, to be quite frank, it often depends on how much that teacher is in touch with Years 7 and 8 ... in some cases it's quite a lot and in others it's none at all.

The participants repeatedly assumed that effective teaching approaches are automatically responsive for all learners at every level. As such, a strong emphasis on inclusivity, with best practice touchstones, such as knowing the individual learner and developing effective relationships, was embedded in their respective programmes. In the instance of the middle-level setting, it was apparent that the participants hoped that associate teachers would capably model effective practice to student teachers. It was unclear, however, where associate teachers might access the requisite specialised middle-level knowledge because none of the participants were able to identify content in existing primary or secondary courses of teacher education that specifically focuses on young adolescence or responsive practices for Years 7–10 learners.

Problematic provision of in-service support

The interviews with the five teacher educators who provide in-service professional development and support to schools, known as 'advisors', provided revealing data about the frustrations they experience in middle-level contexts. In NZ, school support strongly reflects the dominant two-tiered primary/secondary discourse with specialist primary school and secondary school advisors; and it largely exists to facilitate professional development contracts commissioned by the MoE. Several participants identified the primary/secondary division as problematic, because there are at least eight kinds of state school configurations for students in Years 7–10. In addition, school reviews have resulted in dramatic increases in the number of Years

7-13 secondary schools in some regions. The influx of Year 7-8 students into what have been traditionally viewed as secondary school contexts has generated confusion and ambiguity for advisors. The participants identified the pressing need for reform of professional development provided in middle-level settings. A secondary advisor reflected:

Now all of a sudden we've got these increased numbers of Years 7-13 schools and ... what do we do with the Years 7-8 teachers? Are the primary advisors working there or is it the secondary advisors ... How do we actually cater for them? ... We need to have a discussion about how we best serve the Years 7-13 schools.

The advisors stated that the bulk of professional development provided in middle-level contexts was numeracy and literacy contracts. They explained that the contracts strongly emphasise development of teachers' content and pedagogical knowledge, along with an inherent social constructivist learning and teaching philosophy. This was generally perceived by the advisors to be responsive to learners 'at all levels.' The advisors explained that their professional development is underpinned by a handful of NZ publications, such as Alton-Lee's (2003) best practice. One primary advisor explained:

Obviously the literature that we're relying on very heavily now is that around quality teaching - the best evidence. That's the literature that we're using to provide a foundation for our work.

In summary, although the MoE has commissioned several research projects on middle-level education in recent years, the frustration expressed by the advisors participating in this study indicates that the provision of specialised middle-level professional development and support for schools has not been a priority.

Discussion

The belief among the teacher educator participants in this study of the existence of a single generic set of effective learning and teaching practices is indicative of a cultural belief that pervades the NZ educational system and simultaneously disenfranchises young people in Years 7-10. Interestingly, this key finding mirrors that of Rumble (2010) in his doctoral study on the changing nature of teachers' work during reform of middle-level schooling in Queensland, Australia. This misguided belief - that the needs of all learners, including young adolescents, can be met generically via the dimensions of quality learning and teaching constructs - contradicts the otherwise impressive commitment to social constructivism demonstrated by teacher education programmes in NZ. The notion of knowing the learner is foundational to social constructivism and, at the middle level, requires teachers to have in-depth understanding of the unique physical, cognitive, socio-emotional development of young adolescents as well as the socio-cultural and generational influences that shape and characterise their growth and development. The research base on middle schooling, as well as professional experience in international middle-level contexts, shows that the depth of professional understanding needed for successful schooling in the middle years can only be

achieved by the provision of specialised middle-level programmes of initial teacher education and, within schools, by advisors who are experts on middle schooling.

At the middle level, a one-size-fits-all approach to teacher education is recklessly hit-and-miss. It disregards the fact that the stage of early adolescence is second only to infancy in terms of complexity, rapid growth and development (Nolan et al., 2003) and is far removed from the ideal of successful middle-level teachers being experts on young adolescents' developmental needs (Beane & Brodhagen, 2001; NMSA, 2006). Moreover, given sobering NZ statistics indicating ever-increasing levels of student disengagement during the middle years, it is evident that naïve educational philosophies implemented by many Year 7–10 teachers are inadequate. As such, appropriate education for young people in NZ has become an ethical and moral issue. It is no longer tenable to have students in Years 7–10 taught by primary or secondary teachers who might be experts on children's developmental needs or specialists in a National Certificate of Educational Achievement (NCEA) subject area taught in Years 11–13. Early childhood educators are highly educated professionals in their specialist field and, analogously, so should middle-level educators.

We recommend a three-pronged approach to ameliorate the current state of affairs. Firstly, all young adolescents in NZ, regardless of their school configuration or their cultural and socio-economic background, should be taught by expert teachers who have been prepared in programmes of teacher education that are specifically designed to equip them to teach young adolescents. This would challenge the hegemony of the two-tiered system of schooling in NZ but it is crucial to any serious effort to improve educational outcomes for young adolescents. The NZC has prioritised a fresh approach to the middle years of schooling via a differentiated Learning Pathway specifically for Years 7–10 (MoE, 2007). This Learning Pathway, which emphasises the need for a “[developmentally] responsive curriculum” (p. 41), offers promise for improved middle-level education in NZ, yet as the data from this study show, key stakeholders have failed to realise the full implications of this important policy change. To date, the MoE has provided little specific professional development or support for middle schooling at the systemic level. This situation could be rectified and, at the same time, would solve the problem of school advisory reform raised by the advisor participants in this study. It should be acknowledged that the MoE, in response to the recommendations of Bishop (2008), has provided funding for a limited number of teachers to access a postgraduate qualification in middle schooling, but this should not be seen as a systemic solution. In addition, the Ministry has developed an online portal for middle schooling that includes a modest collection of resources for learning and teaching (MoE, 2012).

Our second recommendation is for the MoE to dispense with the obsolete primary and secondary advisor types and to create three pools of specialist advisors representing each of the three Learning Pathways. This study also indicates that teacher education providers assume that associate teachers – who in most, if not all, cases will have no specialist knowledge of the middle years – are capable of mentoring student teachers on placements in middle-level settings without additional support. This is a serious concern because, when effective pedagogies are not adequately modelled during teaching practica, student teachers have no point of

reference for making informed decisions about learning and teaching in future middle-level settings.

Our third recommendation is for the MoE, school communities and teacher education institutions to collectively ensure that student teachers in middle-level settings are provided with expert mentoring and assistance. This would require a fundamental rethink of the nature and extent of partnerships between schools and the tertiary institutions that provide teacher education.

Conclusion

The default position that the attributes of the teacher are generic must be challenged. We believe teacher preparation in NZ must be reinvigorated by introducing a specialised focus on middle schooling. This action will be a crucial step towards ensuring that the Learning Pathway in Years 7–10 is effective. Without specialised middle-level teacher education and in-service professional development, the mounting statistics revealing increasing student disengagement will continue to show that young adolescents are disenfranchised by an education system that fails to recognise, let alone provide for, their developmental and educational needs. As it currently stands, the indifferent quality of education for young adolescents in NZ is an indictment on current policy settings which are at odds with research findings. We are convinced of the need for the urgent reform of teacher education for the middle years of schooling in NZ.

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References

- Alton-Lee, A. (2003). *Quality teaching for diverse students in schooling: Best evidence synthesis*. Wellington, NZ: Ministry of Education.
- Andrews, P. G., & Anfara, V. A. (Eds.). (2003). *Leaders for a movement: Professional preparation and development of middle level teachers and administrators*. Greenwich, CT: Information Age.
- Barratt, R. (1998). *Shaping middle schooling in Australia: A report of the National Middle Schooling Project*. Canberra, ACT: Australian Curriculum Studies Association.
- Beane, J. A. (1997). *Curriculum integration: Designing the core of democratic education*. New York, NY: Teachers College Press.
- Beane, J. A., & Brodhagen, B. L. (2001). Teaching in middle schools. In V. Richardson, (Ed.), *Handbook of research on teaching* (4th ed.) (pp. 1157–1174). Washington DC: American Educational Research Association.
- Beeby, C. E. (1938). *The intermediate schools of New Zealand: A survey*. Wellington, NZ: Whitcombe & Tombs.

- Bishop, P. (2008). *Middle years teacher credentialing in Aotearoa/New Zealand. Report of the Sir Ian Axford Fellow*. Wellington, NZ: Fulbright New Zealand.
- Bishop, R., Berryman, M., Powell, A., & Teddy, L. (2007). *Te Kōtahitanga: Improving the educational achievement of Māori students in mainstream education, Phase 2: Towards a whole school approach*. Wellington, NZ: Ministry of Education.
- Bishop, R., Berryman, M., Tiakiwai, S., & Richardson, C. (2003). *Te Kōtahitanga: The experiences of Year 9 and 10 Māori students in mainstream classrooms*. Wellington, NZ: Ministry of Education.
- Bishop, R., & Glynn, T. (1999). *Culture counts: Changing power relations in education*. Palmerston North, NZ: Dunmore Press.
- Carrington, V. (2006). *Rethinking middle years: Early adolescents, schooling and digital culture*. Crow's Nest, NSW: Allen & Unwin.
- Caskey, M. M., & Anfara, V. A. (2007). Research summary: Young adolescents' developmental characteristics. Retrieved from <http://www.nmsa.org/Research/ResearchSummaries/DevelopmentalCharacteristics/tabid/1414/Default.aspx>
- Chadbourne, R. (2003). What makes middle schools and middle schooling distinctive, if anything? *Queensland Journal of Educational Research*, 19(1), 3–12.
- Cox, S., & Kennedy, S. (2008). *Students' achievement as they transition from primary to secondary schooling*. Retrieved from <http://www.educationcounts.govt.nz>
- Creswell, J. (2009). *Research design: Qualitative, quantitative and mixed methods approaches* (3rd ed.). Thousand Oaks, CA: Sage.
- Crooks, T. (2008). Goals for middle schooling. *Secondary Principals' Association of New Zealand Journal*, 7–9.
- Davies, A., & Hill, M. (2009). *Making classroom assessment work*. Wellington, NZ: New Zealand Council for Educational Research.
- Delpit, L. (2001). Education in a multicultural society: Our future's greatest challenge. In J. Strouse (Ed.), *Exploring sociocultural themes in education* (2nd ed., pp. 203–211). Upper Saddle River, NJ: Merrill Prentice-Hall.
- Denzin, N., & Lincoln, Y. (2003). *Collecting and interpreting qualitative materials* (2nd ed.). Thousand Oaks, CA: Sage.
- Dinham, S., & Rowe, K. (2007). *Teaching and learning in the middle schooling: A review of the literature*. A report to the New Zealand Ministry of Education. Wellington, NZ: Australian Council for Educational Research.
- Dowden, T. (2007). Relevant, challenging, integrative and exploratory curriculum design: Perspectives from theory and practice for middle level schooling in Australia. *Australian Educational Researcher*, 34(2), 51–72.
- Dowden, T., Bishop, P., & Nolan, P. (2009). Middle schooling in New Zealand. In S. Mertens, V. A. Anfara, & K. Roney (Eds.), *The handbook of research in middle*

- level education (vol. 7): *An international look at educating young adolescents* (pp. 135–156). Charlotte, NC: Information Age.
- Durling, N. (2007). *Teaching and learning in middle schooling: A statistical snapshot*. Wellington, NZ: Ministry of Education.
- Durling, N., Ng, L., & Bishop, P. (2010). The education of Years 7–10 students: A focus on their teaching and learning needs. A summary report to the New Zealand Ministry of Education. Retrieved from <http://www.educationcounts.govt.nz/publications/schooling/75765>
- Education Review Office (ERO). (1994). *Forms 1 to 4: Issues for students. National Education Evaluation Reports*. Wellington, NZ: Author.
- Education Review Office (ERO). (2001). *Students in Years 7 and 8: Education evaluation report*. Wellington, NZ: Author.
- Education Review Office (ERO). (2003). *Students in Years 9 and 10: Education evaluation report*. Wellington, NZ: Author.
- Gibbs, R., & Poskitt, J. (2010). *Student engagement in the middle years of schooling (Years 7–10): A literature review. A report to the New Zealand Ministry of Education*. Retrieved from www.educationcounts.govt.nz/publications
- Groundwater-Smith, S., Mitchell, J., & Mockler, N. (2007). *Learning in the middle years more than a transition*. South Melbourne, VIC: Thomson.
- Hattie, J. (2002). What are the attributes of excellent teachers? In B. Webber (Ed.), *Teachers make a difference: What is the research evidence?* (pp. 3–26). Wellington, NZ: New Zealand Council for Educational Research.
- Jackson, A. W., & Davis, G. A. (2000). *Turning points 2000: Educating adolescents in the 21st century*. New York, NY: Teachers College Press.
- Lingard, B., Ladwig, J., Luke, A., Mills, M., Hayes, D., & Gore, J. (2001). *Queensland school reform longitudinal study: Final report*. Brisbane, QLD: Education Queensland.
- McEwin, C., & Dickinson, T. (Eds.). (1995). *The professional preparation of middle level teachers: Profiles of successful programs*. Columbus, OH: National Middle School Association.
- Ministry of Education. (2007). *The New Zealand curriculum (English-medium teaching and learning in Years 1–13)*. Wellington, NZ: Learning Media.
- Ministry of Education. (2012). *Middle schooling*. Retrieved from <http://nzcurriculum.tki.org.nz/Ministry-curriculum-guides/Middle-schooling>
- National Middle School Association. (2003). *This we believe: Successful schools for young adolescents*. Westerville, OH: Author.
- National Middle School Association. (2006). *Position statement on the professional preparation of middle level teachers*. Retrieved from <http://www.nmsa.org/AboutNMSA/PositionStatements/ProfessionalPreparation/tabid/287/Default.aspx>

- Nolan, P., & Brown, M. (2001). Educating students in the middle: Getting it right with or without middle schools. *Set: Research Information for Teachers*, 3, 25–28.
- Nolan, P., Kane, R., & Lind, P. (2003). Approaching and avoiding the middle: Teacher preparation in New Zealand. In G. A. Andrews & V. A. Anfara (Eds.), *Leaders for a movement: Professional preparation and development of middle level teachers and administrators* (pp. 77–97). Greenwich, CT: Information Age.
- Pendergast, D., & Bahr, N. (2010). *Teaching middle years: Rethinking curriculum, pedagogy and assessment* (2nd ed.). Crow's Nest, NSW: Allen & Unwin.
- Rumble, P. (2010). *In search of the middle school teacher: What differentiates the middle school teacher from primary and secondary school teachers?* Unpublished doctoral thesis, University of the Sunshine Coast, Brisbane, Australia.
- Shanks, B. (2010). *Forgotten students, forgotten teachers: Positioning the middle years in New Zealand teacher education* (Unpublished doctoral thesis). University of Tasmania, Launceston, Australia.
- Stewart, D., & Nolan, P. (1992). *The middle school: Essential education for emerging adolescents*. Palmerston North, NZ: Massey University.
- Vygotsky, L. (1978). *Mind in the society: The development of higher psychological process*. Cambridge, MA: Harvard University Press.
- Watson, J. E. (1964). *Intermediate schooling in New Zealand*. Wellington, NZ: New Zealand Council for Educational Research.
- Wyatt-Smith, C., Cumming, J., Elkins, J., & Colbert, P. (2010). Redesigning assessment. In D. Pendergast & N. Bahr (Eds.), *Teaching middle years: Rethinking curriculum, pedagogy and assessment* (2nd ed., pp. 319–344). Crow's Nest, NSW: Allen & Unwin.

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