THE GUIDING FRAMEWORK FOR THE DESIGN AND DEVELOPMENT OF KINDERGARTEN TO GRADE 12 PROVINCIAL CURRICULUM (PROGRAMS OF STUDY)
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Foreword

Education is foundational to Alberta’s democratic and civil society. It is the sum of all learning experiences at home, at school and in the community that influence students to create a positive future for themselves, their families and their communities. Education requires collaboration and commitment among schools, families and communities to prepare all students to reach their full potential.

There are many definitions of curriculum. This document refers to provincial curriculum, also known as programs of study: “what” students are expected to know, understand and be able to do in each subject and grade. Teachers have the flexibility to determine “how” students achieve the expected learning outcomes to bring the provincial curriculum to life in the classroom through meaningful learning activities.

The primary role of The Guiding Framework for the Design and Development of Kindergarten to Grade 12 Provincial Curriculum (Programs of Study) (The Guiding Framework) is to set a common direction for provincial curriculum development, using plain language while preserving the complexity appropriate for professional teachers. The primary audiences of this document are curriculum developers, teachers, school and school authority administrators, trustees, parents and guardians.

Consultations on provincial curriculum and the processes to develop curriculum have been ongoing over the past years. The Guiding Framework builds on development activities and engagements, reviews and analysis of research by Alberta Education, as well as reviews of various discussion papers prepared by stakeholders, such as The Alberta Teachers’ Association and the College of Alberta School Superintendents and others. As well, it consolidates the ongoing research and reviews of pan-Canadian and international curriculum, recently developed or under development.

The Preamble to Alberta’s Kindergarten to Grade 12 (K–12) Provincial Curriculum is a declaration of what Albertans value in education. It outlines the vision for students as lifelong learners and the student values we aspire for all students to explore and achieve. In setting the direction for provincial curriculum, this document also reflects government policy and commitments relating to economic diversification, climate change, wellness, pluralism, diversity,
inclusion, First Nations, Métis and Inuit\(^3\) education for reconciliation\(^4\), rights of Indigenous peoples\(^5\), and Francophone cultures and perspectives. Curriculum has a role in creating a positive future for Alberta, by preparing students for a more diversified economy, and by helping them to improve health outcomes and address global environmental challenges such as climate change.

Provincial curriculum (also referred to in this document as “curriculum” or a program of studies) is a core element of formal education and the basis of learning experiences that students encounter and experience in a variety of environments. Provincial curriculum consists of the K–12 courses and programs of study\(^6\) developed by Alberta Education and prescribed by the Minister of Education.

*The Guiding Framework* also describes the purpose of curriculum and includes the common principles and standards that guide the development of curriculum. Additionally, it identifies the common features of subject-based curriculum, including architecture and design, for Language Arts (English Language Arts, French Language Arts, Français), Mathematics, Science, Social Studies, Arts Education and Wellness Education.

Architecture is the systematic and logical arrangement of the common components of K–12 provincial curriculum. Design explains the relationships among the components identified in the architecture of provincial curriculum. It is the consistent application of curriculum philosophies, principles and standards, and scope and sequences to achieve coherence within and across subjects and grades.

As a foundational document, *The Guiding Framework* is the preamble to all Alberta’s K–12 provincial curriculum.

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\(^{3}\) First Nations is a term to identify descendants of the original inhabitants of this land we now know as Canada. This term was created by these people to which it identifies (Assembly of First Nations, n.d.). The Métis are distinct peoples who have developed their own customs and way of life stemming beyond mere mixing of their historical ancestry of First Nations and European peoples (Métis Nation of Alberta, 2016). The Inuit are another distinct group of peoples who are the original inhabitants of the North American Arctic. They have a unique cultural heritage and language that vastly differs from First Nations and Métis peoples (Inuulitsivik, 2011–2016).

\(^{4}\) The Truth and Reconciliation Commission defines “reconciliation” as “an ongoing process of establishing and maintaining respectful relationships. A critical part of this process involves repairing damaged trust by making apologies, providing individual and collective reparations, and following through with concrete actions that demonstrate real societal change. Establishing respectful relationships also requires the revitalization of Indigenous law and legal traditions. It is important that all Canadians understand how traditional First Nations, Inuit, and Métis approaches to resolving conflict, repairing harm, and restoring relationships can inform the reconciliation process” (Sinclair, Littlechild, & Wilson, 2015, p. 121).

\(^{5}\) The term Indigenous refers to people practising unique traditions, who retain social, cultural, economic and political characteristics that are distinct from those of the dominant societies in which they live. (United Nations Permanent Forum on Indigenous Issues http://www.un.org/esa/socdev/unpfii/documents/5session_factsheet1.pdf)

\(^{6}\) “The Minister may do the following: a) prescribe courses of study or education programs” (*School Act*, Section 39(1)).
Preamble to Alberta’s Kindergarten to Grade 12 Provincial Curriculum

Vision for Students

Students are at the heart of Alberta’s Kindergarten to Grade 12 (K–12) education system. The following vision articulates hopes and expectations for all students:

Students are lifelong learners inspired to pursue their aspirations and interests; achieve fulfilment and success; and contribute to communities and the world.7

Student Values

Values represent beliefs about the important and desirable characteristics for Alberta’s students. Student values8 include the following:

- **Democracy and Citizenship**, by treating others ethically, with fairness and equity; by demonstrating social justice when taking action; by contributing to the common good; by building cross-cultural awareness and celebrating diversity in our pluralistic society; and by contributing to local and global communities;

- **Belonging and Identity**, by exploring identity and developing a sense of self and belonging; by confidently interacting and engaging with others; by embracing opportunities to learn through interaction with others; by pursuing dreams, talents and aspirations; and by recognizing diverse abilities and the importance of cultures and languages as part of a bilingual, multicultural, inclusive and pluralistic society;

- **Integrity and Respect**, by demonstrating concern for self and others; by building and nurturing healthy relationships; by demonstrating empathy and compassion; by affirming truth; and by acting honourably and ethically;

- **Perseverance and Excellence**, by demonstrating optimism, confidence, courage and resiliency when confronted with challenges or pursuing new ideas; by setting goals and being accountable for results; by striving for well-being of self and others; and by making responsible choices and adapting to change; and

- **Innovation and Stewardship**, by thinking logically, creatively and critically to foster ingenuity, imagination and curiosity; by taking risks; by achieving goals through hard work; and by taking personal and collective responsibility for the public good and to improve community, foster environmental stewardship and ensure a sustainable world with a hopeful future.

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7 Education Business Plan 2015–18

8 Modified from the first Whereas in Ministerial Order #001/2013, which states that “the fundamental goal of education in Alberta is to inspire all students to achieve success and fulfillment, and reach their full potential...”

“WHEREAS education inspires students to discover and pursue their aspirations and interests and cultivates a love of learning and the desire to be lifelong learners” (Education Act, p. 10).

Student values are derived from the Ministerial Order on Student Learning (#001/2013) and the Education Act.
Considerations for Design and Development of Alberta’s Kindergarten to Grade 12 Provincial Curriculum

Drawing upon research, recent consultations on provincial curriculum and what Albertans value in education, the following considerations will underpin the design and development of Alberta’s K–12 provincial curriculum.

Nature of Learning and the Learner

Understanding the nature of learning and the learner is the starting point for building a learner-focused, knowledge-centred and meaningful provincial curriculum for students in Alberta. Research in the past few decades on the nature of learning highlights the complexity of what once appeared to be a fairly straightforward, laddered process but is now currently understood as an embodied and embedded dynamic web.

Provincial curriculum must resonate with the embodied understandings of learning. The study of learning is transdisciplinary, drawing upon neurology, psychology, biology, sociology, anthropology and ecology. Neuroscience, cognitive neuroscience and developmental psychology affirm that learning is a complex, nonlinear and dynamic process. The dominant model of the human mind in Western societies still tends to view the brain as the core organ that carries much of consciousness and learning. Although understanding the brain is essential, brains are part of bodies, not the other way around. For example, neuroscience research reveals that exercise increases the efficiency of neural networks that are important for learning. Studies of school-aged children have corroborated the positive effects of exercise on cognitive functions. Learning is, therefore, active, embodied and contextualized.

Learning involves the mindful and effortful involvement of students in the individual and social processes of knowledge and skill acquisition through interaction with the environment. Learning thrives in contexts that view learners as central participants, encourage engagement and activate learners’ prior knowledge and evolving understanding of themselves as learners. The capacity to learn enables students to transfer knowledge across contexts and to address unfamiliar problems. This capacity is built over time and through multiple opportunities to utilize foundational learning and deepen understanding. Meaningful learning experiences based on real-life situations or community involvement through Elders or others, service learning, career development, field experiences and academic studies can engage and motivate students to learn. Emotional and cognitive aspects of learning are interdependent and critical to learners’ intrinsic motivation. Knowledge and understanding are built through reflection and interaction with others.

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9 Learners cannot be studied independently of the contexts of their existence. The notion that learning is situated or embedded is integral to many contemporary theories, including indigenous pedagogy, social constructionism, situated cognition, sociocultural theory, cultural-historical theory, activity theory, actor-network theory, distributed cognition and semiotic pedagogy.


Learning is embedded in relationships, culture, family, Elders, Knowledge Keepers, community, land, connections, memory and history. Embedded understandings of learning highlight the participatory and collective nature of learning. School settings that acknowledge the embedded nature of learning recognize that knowledge, skills and attitudes need to be connected and related to the world and the culture and community, rather than abstracted, dislocated or decontextualized fragments.

Parents, guardians, other family members, significant adults and peers influence and support the healthy mental and physical well-being of learners throughout their growth and development. Developing positive relationships with these role models, in addition to teachers, principals, coaches and Elders, can help students make good decisions and life choices throughout their schooling.

Culture and society have significant influence on how children develop and learn. Children bring their culturally constructed understandings and experiences of the social and natural world and their unique capabilities, attitudes and dispositions to their various learning environments. In order to reach their potential, learners need to be intellectually engaged and experience belonging, acceptance and resiliency.

**Kindergarten to Grade 12 Provincial Curriculum Considerations**

Student engagement is one branch of educational research that has been particularly attentive to the transdisciplinary character of learning, drawing upon both the embodied and embedded aspects. Provincial curriculum that intellectually engages students calls for designs that help students develop interconnected pathways within a discipline and across disciplines. It provides opportunities to bind people together to build social cohesion and produce minds that thirst to build knowledge throughout the course of their lives.

Alberta’s provincial curriculum is structured and designed to activate deep, meaningful learning and understanding by:

- providing the opportunities needed for depth of learning and understanding to emerge. This means that students must experience concepts numerous times and in numerous ways through various disciplines by building on prior knowledge and experiences;
- developing subject scope and sequences that facilitate both in-depth learning in the subject and cross-curricular approaches to learning through competencies and literacy and numeracy that transcend subjects, and are critical in ensuring coherence within and across subjects;
- integrating competencies with subject- and grade-specific conceptual and/or procedural knowledge in creating learning outcomes that ensure students, in “knowing things,” are also able to apply what they know. This means going beyond “learning about” to learning the ways of knowing, doing and being, and acknowledging that ideas need to be brought into relationship with each other because the problem, topic and concept at hand is complex.

Teachers and students need to be able to make connections within and outside of the school.
or the subject; provincial curriculum must therefore be created to allow for these connections
to emerge; and

- requiring, respecting and sustaining multiple ways of knowing, acknowledging the embedded
  nature of learning. Individuals, communities and cultural groups hold different ways of
  knowing. In addition, each of the discipline have particular ways of working and ways of
  knowing.

Provincial curriculum is organized into a continuum that aligns with the descriptions of the three
transitions from early to middle to later schooling described below. These are not meant to be
discrete, but rather overlapping developmental progressions. Current developmental theories take
a multidimensional perspective to describe and explain child development as a complex process
that involves multiple layers of interacting causes for change: physical/molecular, biological,
psychological, social and cultural. Childhoods differ depending on each child’s lived social and
cultural circumstances. Developmental science is paying increasing attention to cultural, ethnic,
gender and socioeconomic variations in developmental processes and outcomes. There are
multiple ways of being a child.

The Early Years: Kindergarten–Grade 4
The nature of children’s early experiences has long-term impact on their learning and personal
growth. Young learners need rich and varied opportunities to explore their environments, use
language, engage with peers and interact with family members at home, with responsive adults at
school and in their communities. Children develop and mature as active, independent and
collaborative learners when they are able to make connections between what they learn in school
and in their life.

Children strive for intellectual independence. Children are curious and have questions. They
want to know why things are the way they are. Children progress through their intellectual
growth and develop a reasoning mind that can apply the power of their imaginations. Questions
of morality, fairness, mercy and justice fascinate young students as they become more socially
oriented and compassionate towards others.

Provincial curriculum and related learning experiences in the early years and throughout
schooling must support students in thinking of themselves as confident, curious, creative and
innovative; and as responsible contributors, capable communicators and problem solvers. It is in
the early years that the foundation is laid for later learning. Throughout schooling, curriculum
needs to engage students in rich learning experiences while developing a solid base of literacy
and numeracy and social skills. Curriculum also needs to develop in students the understandings
and competencies that both relate to, and make, connections across subjects. While the
curriculum includes subjects with their distinctive knowledge and understandings, curriculum
provides greater opportunity for drawing together understandings within and across subjects.
The Middle Years: Grades 5–10
Adolescence is a period of rapid physical, emotional, cognitive and social development. Identity formation is critical to learners in the middle years as they transition from childhood to adolescence. During adolescence, students have an increased sense of self and strive for independence. Learners build upon their skills and knowledge while assessing and enhancing their competencies, and identifying their strengths, talents and interests for further study and careers. Students in the middle years also seek social, academic and intellectual engagement.

Teachers and students work together as a community of learners to support each other in learning. Students are increasingly engaged in their learning and become active citizens of their school and community. Students in these years begin thinking about their future after schooling and initiate discussions with peers, teachers and family members on how to reach educational and occupational goals. During these years, a supportive environment and high expectations are critical in creating positive and optimistic attitudes towards learning.

Provincial curriculum and programming in these years provide students with opportunities to develop and practise empathy, caring and service to others. Building these positive relationships within the community helps students to experience the relevance of what they learned in school within a broader context.

The Later Years: Grades 11–12
Learners are increasingly engaged in, and curious about, events and issues and have a heightened awareness and capacity to act for the benefit of local and global communities. Learning environments that challenge and support learners in the later years need to be learning-focused, supportive and knowledge-centred. As adolescents transition into adulthood, they benefit from learning opportunities that are relevant to their talents, passions, future pathways and career aspirations. They acquire information on post-secondary careers and studies, and participate in specialized subject-based educational opportunities that lead to specific occupations and related studies.

Students need to be fully aware of these flexible and innovative pathways-based programming opportunities. Students also need to be self-aware and confident in their strengths and areas requiring growth. Raising aspirations of students through discussions with family, counsellors, employers, and post-secondary and community members can ensure that decisions relating to further studies and careers are made with full knowledge of options, as well as their interests and needs.

Provincial curriculum and programming in these years reflect increased specialization and differentiation in providing an academic foundation and career preparation for adulthood.

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12 Curriculum is K–12 programs of study that set the standards for student learning and are prescribed by the Minister of Education. “Programming takes place at the local level and involves effective student engagement with the programs of study. Programming decisions are made by school authorities, schools, teachers and students” (Alberta Education, 2015a, September, p. 5).
Students may benefit from flexible and innovative programming options, such as dual credentialing, that blur the boundaries among K–12 and post-secondary education, work-based training, internship and employment. These options could include full- or part-time apprenticeship, dual-credit training and education, part-time schooling combined with part-time training pathways, work study, self-employment or volunteering in a community-based social or cultural enterprise.

**Pluralism and Diversity**

As a pluralistic society, Alberta recognizes and celebrates diversity. Pluralism is intended to safeguard and foster understanding and respect for social, cultural, religious and ethnic diversity. Provincial curriculum is intended to reflect the values of society and prepare students to be contributing citizens of our pluralistic and increasingly diverse society.

Embracing diversity is essential for fostering social cohesion in a pluralistic society. Social cohesion is a process that requires the development of relationships within and among communities and a commitment to respectful dialogue and openness. In promoting social cohesion, the curriculum endeavours to develop an understanding of the need for civic responsibilities, respecting individual and collective rights, building shared values and appreciating the rule of law and democracy.

Pluralism requires support for social justice for all people and groups to ensure that students are not prevented from realizing the full benefits of participation in society. This also addresses injustice faced by those who historically were and continue to be marginalized or experience discrimination.

Ethnicity, socioeconomic conditions, community, religion, culture, gender expressions and gender identities are among various forms of identification that people—including immigrant and refugee families—live with and experience in a variety of ways. Through the provincial curriculum, students value diversity and recognize differences as positive attributes. They recognize the evolving nature of individual and collective identities in working out differences, celebrating commonalities and in constructing social cohesion. Students are encouraged to develop a commitment to respect differences and foster inclusiveness and understand and appreciate each other’s values. Students, as ethical and engaged citizens, develop respect for democratic principles and processes for decision making.

Alberta’s provincial curriculum strives to ensure that differences among learners do not impede participation in school and community, academic achievement or capacity to access further study.

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13 Standard 2: Curriculum includes multiple, diverse perspectives that reflect our pluralistic society and the important roles and responsibilities of Alberta citizens within provincial, national and international contexts. NOTE: All standards are provided in Appendix A.  
All courses or programs of study and instructional materials used in a school must reflect the diverse nature and heritage of society in Alberta, promote understanding and respect for others and honour and respect the common values and beliefs of Albertans” (School Act, Section 3(1)).
and careers which lead them to become contributing members of society. The curriculum can promote understanding of the roles and contributions of linguistic, cultural and ethnic groups in Canada. By helping students learn about themselves in relation to others and function as citizens in a pluralistic society that values diversity, curriculum also helps students understand how diversity and differences are assets that enrich lives and are essential to creating healthy communities.

Finally, the growing diversity in the population can help advance and develop Alberta’s strategic international interests and relationships. Alberta’s provincial curriculum needs to prepare students to work and succeed in a world of diversity. Global and cultural understanding gained from the provincial curriculum is vital to Alberta’s prosperous, value-added and sustainable economy.

**Inclusion**

A high-quality, publicly funded education system is crucial to Alberta’s democratic society. In 2005, the United Nations Educational, Scientific and Cultural Organization’s (UNESCO) *Guidelines for Inclusion: Ensuring Access to Education for All* recognized that it is essential that an educational system be equitable and inclusive in order for all learners to receive a high-quality education. Setting high expectations for all children and students in Alberta’s provincial curriculum is fundamental to their success.

Inclusion is a way of thinking and acting that demonstrates universal acceptance of, and belonging for, all children and students. Alberta’s inclusive K–12 education system embraces diversity and learner differences, and promotes equitable opportunities for all learners in safe and caring environments. Alberta’s Inclusive Education Policy is built on a values-based approach to accepting responsibility for all children and students. It takes into account learners’ diverse backgrounds, interests and experiences to develop the foundation needed for lifelong learning.

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14 Standard 1: Curriculum is designed to enable learning opportunities that are equitable, inclusive and accessible to all Alberta students. NOTE: All standards are provided in Appendix A.

15 Alberta’s Inclusive Education Policy states, “... all children and students (Kindergarten to Grade 12), regardless of race, religious belief, colour, gender, gender identity, gender expression, physical disability, mental disability, family status or sexual orientation, or any other factor(s), have access to meaningful and relevant learning experiences that include appropriate instructional supports” (Alberta Education, 2015a, September, p. 25).
First Nations, Métis and Inuit Experiences and Perspectives

As first peoples, First Nations, Métis and Inuit include many diverse peoples and unique cultures across Canada. Although there may be common threads that run through the different groups, communities have unique cultures, traditions, languages, experiences and perspectives which form their worldview. Within Alberta, there are 48 First Nations in the territories across Treaty 6, Treaty 7 and Treaty 8, eight Métis Settlements, as well as many First Nations, Métis and Inuit living in urban and rural communities. Each of these communities has a unique culture and perspectives. All students within these communities need to see themselves within Alberta’s provincial curriculum.

Elders and Knowledge Keepers are recognized in their respective communities as holders of cultural knowledge, wisdom and oral tradition. They are essential in transferring, preserving and maintaining knowledge, cultures, languages and traditions.

To honour the Truth and Reconciliation Commission of Canada: Calls to Action and the United Nations Declaration on the Rights of Indigenous Peoples, Alberta is committed to rebalancing the education system by including Indigenous ways of knowing in curriculum to advance reconciliation for all Albertans.

Diverse First Nations, Métis and Inuit experiences and perspectives across the curriculum provide means for reconciliation. Increasing inter- and cross-cultural understanding and initiating shifts in thinking and in attitudes will build trust to improve relationships among all Albertans. The inclusion of First Nations, Métis and Inuit historical and contemporary experiences and contributions, residential schools and their legacy, and treaties will help rectify social injustices and support better relationships. First Nations, Métis and Inuit songs, stories, histories, languages, arts, sciences, and contributions to the rich history of Alberta need to be part of every Alberta student’s education. First Nations, Métis and Inuit experiences and perspectives are included and reflected throughout K–12 provincial curriculum. Every student in the province, not only First Nations, Métis and Inuit students, will learn about the diverse Indigenous peoples of this land and how First Nations, Métis and Inuit contribute to the vibrancy and fabric of Alberta and Canadian society.

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16 – Standard 3: Curriculum includes ways of knowing and diverse perspectives, in historical and contemporary contexts, of First Nations, Métis and Inuit. NOTE: All standards are provided in Appendix A.

WHEREAS the Government of Alberta is committed to encouraging the collaboration of all partners in the education system to ensure the educational success of Alberta’s First Nations, Métis and Inuit students” (Education Act, p. 11).
Francophone Cultures and Perspectives

As representatives of the linguistic duality of Canada, Francophone communities in Alberta continue to grow and actively contribute to Alberta’s economy, cultural mosaic and society as a whole. Today’s Francophone communities include generations of Franco-Albertans and newcomers from other Canadian provinces and territories, as well as people from many countries around the world. As such, Francophone communities are a vibrant and integral part of Alberta’s diverse society.

The inclusion of Francophone perspectives in Alberta’s provincial curriculum enables every student in the province, not only Francophone students, to gain a deeper understanding and appreciation of the linguistic, historical, cultural and contemporary contributions of Francophones and their communities in Alberta, Canada and the world. Where appropriate, Alberta’s provincial curriculum provides opportunities for all students to experience and gain valuable insights into the linguistic duality and cultural diversity that shape Canada’s identity.

Section 23 of the Canadian Charter of Rights and Freedoms (1982) gives Francophones and Anglophones, who live in a minority setting, the right to a primary and secondary education in their official language. In the context of Francophone education in Alberta, provincial curriculum for Francophone students incorporates the foundational pillars of language, identity, culture and community integration to develop and affirm Francophone students’ sense of identity and belonging.

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17 – Standard 4: Curriculum includes the diverse perspectives, in historical and contemporary contexts, of Francophones living in Alberta, Canada and the world. NOTE: All standards are provided in Appendix A.

- “If an individual has rights under section 23 of the Canadian Charter of Rights and Freedoms to have the individual’s children receive school instruction in French, the individual’s children are entitled to receive that instruction in accordance with those rights wherever in the Province those rights apply” (School Act, Section 10(1)).
Alberta’s Kindergarten to Grade 12 Provincial Curriculum (Programs of Study)

The vision for students, the student values, and the preceding considerations combine to shape Alberta’s K–12 provincial curriculum. Curriculum also states, in subjects and by grade, what students are expected to understand, know, be able to do and be able to put into action while developing dispositions to act.

Purpose

Alberta’s provincial curriculum helps students create a positive future for themselves, their communities and society. It provides students with pathways to the world of work and post-secondary education related to their career interests. For example, provincial curriculum enables greater awareness of opportunities for Alberta’s economic diversification within the global economy and the need to address global environmental challenges such as climate change. Alberta’s curriculum identifies student learning outcomes to ensure all Alberta students have access to inclusive and equitable learning opportunities regardless of where they live or go to school. Courses or programs of study prescribed by the Minister of Education support and align with the Ministerial Order on Student Learning: Goals and Standards Applicable to Education in Alberta (#001/2013).

While Alberta Education determines “what” students need to learn in provincial curriculum (programs of study), teachers use their professional judgement to determine “how” students achieve the learning outcomes in the provincial curriculum.

Provincial curriculum is essential to developing students’ knowledge and understanding in subjects and their applications in daily life. Curriculum reflects an appropriate balance between subject conceptual and procedural knowledge, competencies that deepen understanding, and a strong foundation of literacy and numeracy.

Provincial curriculum is the starting point for teachers to apply their professional judgement to plan and design equitable student learning experiences that capitalize on students’ engagement and motivation by taking into account their interests, abilities, preferences and backgrounds, as well as local contexts. Such learning experiences broaden perspectives and enable students to create opportunities, challenge the status quo, take initiative to achieve their dreams, and take action to create a better world. Through the study of subjects that reinforce literacy and numeracy and develop competencies through learning outcomes, students use their abilities to communicate respectfully, synthesize ideas, collaborate with others, think critically and solve complex problems.

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18 Conceptual knowledge (what students should know) ranges from simple isolated facts to knowledge involving complex relations and connections. It includes the facts, symbols, rules, principles and concepts that constitute the subject. Procedural knowledge (what students can do; i.e., strategies, steps and approaches) ranges on a continuum from the simple to deeper understanding, from knowing how, to knowing how and why to carry out a process (Baroody, Feil, & Johnson, 2007, March).
To ensure that provincial curriculum meets its intended purpose, development is guided by the consistent and holistic application of principles and standards.

**Features Common to Provincial Curriculum**

The content of Alberta’s K–12 provincial curriculum consists of three common features that ensure consistency. These three features are:

- **Common architecture and design**: In addition to conforming to the common principles and standards, curriculum also has a common architecture and design to help teachers plan learning experiences. The architecture is the systematic and logical arrangement of the common components of provincial curriculum. The design explains the relationships among the components identified in the architecture of provincial curriculum.

- **Common approach to the development of learning outcomes**: The common approach to defining the scope and depth of learning outcomes and the associated competencies in curriculum ensures equity of learning opportunities for all students.

- **Common language**: The use of common language results in a high level of consistency across curriculum, while at the same time recognizing and preserving the nature of knowledge—its customs and practices—that is specific to a particular subject. This enables teachers to communicate both across subjects and grades with students, parents/guardians and colleagues.

**Principles**

Principles provide direction and guidance and ensure consistency in the common design and development of all provincial curriculum. These principles are interdependent and apply to all subjects. They:

- support students’ development and application of literacy, numeracy and competencies within and across all subjects;
- support students’ acquisition and application of knowledge within and across all subjects so that students gain deep understandings;
- engage and support students’ learning needs and facilitate informed choice and flexible approaches to learning;
- respond to the emerging needs of a global, knowledge-based society and prepare students for life in a complex and interconnected world;
- broaden students’ perspectives by valuing, respecting and nurturing the diverse ways of experiencing and understanding the world; and
- encourage students to achieve their potential by recognizing that there are diverse ways of developing and demonstrating learning.

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19 Adapted from Alberta Education (2015b, September).
Standards

Standards for the Development of K–12 Provincial Curriculum (Programs of Study), as well as Learning and Teaching Resources, and Assessments have been created to ensure that the principles are reflected in all provincial curriculum. Of the 12 standards, the first eight standards have been developed related to the curriculum content. The application of these standards ensures that the curriculum meets the purpose for which it was designed and developed.

Provincial Curriculum:

1. Curriculum is designed to enable learning opportunities that are equitable, inclusive and accessible to all Alberta students.
2. Curriculum includes multiple, diverse perspectives that reflect our pluralistic society and the important roles and responsibilities of Alberta citizens within provincial, national and international contexts.
3. Curriculum includes ways of knowing and diverse perspectives, in historical and contemporary contexts, of First Nations, Métis and Inuit.
4. Curriculum includes the diverse perspectives, in historical and contemporary contexts, of Francophones living in Alberta, Canada and the world.
5. Curriculum is developmentally appropriate and written in clear and concise language for its intended audience and includes observable or measurable learning outcomes.
6. Curriculum is written to facilitate holistic student development.
7. Curriculum provides clear evidence of support for literacy and numeracy within and across subjects.
8. Curriculum provides clear evidence of competencies within and across subjects.

Assessments:

9. Assessments, whether classroom-based or provincial, are purposeful, fair and respectful of diverse learning needs.
10. Provincial assessments include the reporting of student learning and student achievement.

Processes:

11. Quality curriculum is developed and reviewed regularly to ensure continual improvement using consistent processes as outlined in Alberta’s three interconnected phases: Shaping, Developing and Implementing.
12. Curriculum is reviewed for accuracy, currency and relevancy within a 48-month cycle.

The standards for provincial curriculum will also be applicable to learning and teaching resources. Elaborations on each standard are provided in Appendix A.

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20 Adapted from Alberta Education (2016, February).
Subjects

Each subject has a body of knowledge that is specific to that domain of study. This body of knowledge includes the facts, symbols, rules, principles and concepts (conceptual knowledge) that constitute the subject. Each subject also has its strategies, steps and systemic approach to problem solving (procedural knowledge).

Provincial curriculum includes both subject conceptual and procedural knowledge. Conceptual and procedural knowledge (as identified in the learning outcomes in the programs of study) provide the subject content and context for the development of competencies, and literacy and numeracy. Through developing and applying literacy, numeracy and competencies, students acquire understanding that facilitates meaningful connections across and within subjects. Students then apply their knowledge to new situations, improve upon ideas, solve problems and make decisions.

Taken together, Alberta’s provincial curriculum contributes to achieving the goal of an inclusive K–12 education system and the outcomes of the MO (#001/2013).

Competencies

Students are artists, scientists, thinkers, innovators and leaders both now and in the future. They will be tasked with solving the problems of today, while imagining and creating a new tomorrow. Competencies are defined as interrelated sets of attitudes, skills and knowledge that are drawn upon and applied to a particular context for successful learning and living.21

Competencies are essential for preparing students to successfully navigate their personal journeys and contribute to family, community and society. Competencies accentuate aspects of learning that apply across all subjects. Alberta’s provincial curriculum emphasizes the following eight competencies which are a streamlined expression of the competencies identified in the MO (#001/2013). These competencies are based on international research22 and reflect priorities shared by education stakeholders across Alberta:

- Critical Thinking
- Problem Solving
- Managing Information
- Creativity and Innovation
- Communication
- Collaboration
- Cultural and Global Citizenship
- Personal Growth and Well-being

Alberta’s K–12 provincial curriculum is designed to engage students in exploring, developing and applying competencies in relevant subject content and contexts. Learning outcomes strategically and clearly combine selected competencies with subject-specific conceptual and/or

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21 This definition of competencies was developed by Alberta Education with stakeholders during research roundtables with educators, parent groups, teachers, school administrators, researchers, employers and non-government organizations in 2011.

22 See Amadio (2013); Ananiadou & Claro (2009); Bristow & Patrick (2014); Christensen & Lane (2016); European Commission/EACEA/Eurydice (2012); Organisation for Economic Co-operation and Development (2003); Ontario Ministry of Education (2016).
procedural knowledge. Students draw upon and apply competencies to achieve learning outcomes. Teachers may focus on additional competencies where they present opportunities to enhance student learning according to local needs, interests or contexts.

**Competency Descriptions and Indicators (Appendix B)**

Competency descriptions provide an overview of key features of each competency. They holistically describe the attitudes, skills and knowledge associated with each competency.

Competency indicators identify specific aspects of a competency that are transferable across subjects or contexts. Competency indicators:

- focus the scope of each competency;
- help teachers determine which aspects of a competency are evident within learning outcomes, learning experiences or assessments; and
- describe cognitive, affective or psychomotor behaviours to help identify situations where a competency may be applied or developed.

Teachers draw upon the language or content of the descriptions and indicators to:

- share understandings with students;
- develop learning experiences;
- create assessments; and
- communicate with parents and guardians, employers and community-based social and cultural enterprises regarding competencies.

Teachers work with students to develop competencies over time. Teachers use their professional judgement to design learning experiences and select assessment strategies that are appropriate for grade, subject and context. A curriculum that promotes the development of competencies across all subjects and grades supports students in becoming lifelong learners inspired to pursue their aspirations.

**Literacy and Numeracy**

Literacy and numeracy are critical in helping students make meaning of the world around them. They open doors and opportunities for individuals to acquire the knowledge they need to achieve personal goals and build a better quality of life. Literacy and numeracy lay the foundation for lifelong learning and for active participation in society. Literacy and numeracy begin at birth and develop throughout one’s lifetime.

In Alberta, literacy is defined as the ability, confidence and willingness to engage with language to acquire, construct and communicate meaning in all aspects of daily living. Students transfer the knowledge, skills and strategies learned primarily in language arts to all other subjects in

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purposeful ways and to everyday situations at school, at home and in the community. Students also acquire and apply literacy that is unique to each subject.

In Alberta, numeracy is defined as the ability, confidence and willingness to engage with quantitative or spatial information to make informed decisions in all aspects of daily living. Students transfer the knowledge, skills and strategies learned primarily in mathematics to all other subjects in purposeful ways and to everyday situations at school, at home and in the community. Students’ numeracy skills grow as the quantitative and spatial understandings specific to each subject are learned and applied.

Literacy and numeracy progressions describe key literacy and numeracy milestones along a continuum of developmentally appropriate expectations and behaviours across all subjects from K–12. The progressions are organized around components, elements and descriptors. The progressions provide a common language and construct for all teachers to help students reinforce, acquire or apply literacy and numeracy when engaging with subject learning outcomes.

Literacy and numeracy are built and refined through learning the subject; in turn, conceptual and procedural knowledge are developed through literacy and numeracy. In addition, the development of literacy and numeracy skills adds depth and richness to students acquiring competencies within subject learning outcomes.

Provincial curriculum will show the connections between learning outcomes and relevant literacy and numeracy progressions that are developed and applied in a given subject.

**Curriculum and Technology**

Students’ worlds are increasingly being shaped by their abilities to use digital technologies to meet the evolving demands of social relationships, the workplace and a diversified economy. Alberta’s economic diversification requires a skilled workforce that is capable of contributing and adjusting to technological change and evolving workplace requirements for innovative and highly developed skills. Curriculum needs to address these expectations for students in learning and life.

Digital technologies support student-centred learning, including but not limited to the context of subjects in Alberta’s K–12 curriculum. Practiced and applied in real life, students learn to use productivity tools, software and techniques, such as the organization and analysis of data, composition of texts, music and multimedia, creation of a coding flow chart, new product or process in digital environments. They also further develop and apply competencies, as well as literacy and numeracy.

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25 There are two components: Awareness, and Knowledge and Understanding.
26 Elements describe the essential building blocks of literacy and numeracy.
27 Descriptors explain what students can typically demonstrate by the end of their particular age/division grouping.
The Architecture and Design of Kindergarten to Grade 12 Provincial Curriculum (Programs of Study)

The Guiding Framework establishes the common direction, principles and standards that guide the development of provincial curriculum, and identifies the common features for all curriculum. The common direction, principles and standards result in a common architecture and design that provide consistency across all subjects.

The common architecture and design, along with the common language and the common approach to the development of learning outcomes, facilitate teacher planning in and across all subjects and grades, interdisciplinary teaching, cross-curricular learning experiences for students and comprehensive professional development. Ultimately, the common architecture and design facilitate a more effective, equitable and simultaneous implementation of provincial curriculum in English and French throughout the province.

The common architecture and design ensure that each subject consistently focuses on competencies, literacy and numeracy; supports inclusion, pluralism and diversity; includes Francophone cultures and perspectives; includes First Nations, Métis and Inuit cultures and perspectives, and advances First Nations, Métis and Inuit education for reconciliation.

Provincial Curriculum: Architecture and Design

The architecture and design is the systematic and logical arrangement of the common components of all future Kindergarten to Grade 12 (K–12) provincial programs of study in all subjects.

The following visual illustrates the arrangement of the common components.

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29 Architecture is the systematic and logical arrangement of the common components of K–12 provincial curriculum.
30 Design explains the relationships among the components identified in the architecture of provincial curriculum. It is the consistent application of principles and standards to develop scopes and sequences (consisting of essential understandings, guiding questions, and conceptual and procedural knowledge) and learning outcomes.
The common architecture and design is supported by an evolving digital platform currently called the Curriculum Development and Management Application (CDMA). The CDMA will provide a “one window” access to provincial curriculum. Once fully developed, the CDMA will also provide access to teachers for learning and teaching resources and assessments.

The following sections address each common component of K–12 provincial curriculum.

### The Guiding Framework
(Preamble to Alberta’s Kindergarten to Grade 12 Provincial Curriculum)

The Preamble to Alberta’s K–12 Provincial Curriculum, pages 3–11, defines the vision for students, outlines the student values, and describes the nature of learning and the learner. The Preamble also reflects government policy and commitments related to pluralism and diversity, inclusion, First Nations, Métis and Inuit experiences and perspectives, and Francophone cultures and perspectives.

The Preamble sets the direction (philosophical, legislative and policy underpinnings) for all curriculum. It identifies the common features, pages 12 to 22, which ensure consistency in the design and development of curriculum in all subjects through the application of principles and standards and a common approach to developing learning outcomes.

As a foundational document, *The Guiding Framework* is the preamble to all Alberta’s K–12 provincial curriculum.

### Kindergarten to Grade 12 Subject Introduction

The subject introduction describes the spirit and nature of the subject and how it is organized, practised and applied in real life. The introduction outlines the major purpose of the subject and describes the subject as it relates to the education of students in K–12. A rationale provides the justification for why the subject is learned and how the subject addresses student and societal needs now and in the future.

The subject introduction also describes how the:
- subject fosters understanding of the roles and contributions of linguistic, cultural and ethnic groups in Canada and how the subject supports students in achieving a balanced understanding of social, cultural, political, economic and environmental perspectives that shape Alberta and its relationship with the rest of Canada and the world;
- needs of diverse learners are met within the subject through accessing, expressing and engaging with subject content while taking into consideration the nature of learning and the learner;
- subject addresses the role, significance and impact of the contributions made by First
Nations, Métis and Inuit cultures and perspectives that are significant to the subject, and how the subject engages traditional knowledge, experiences, languages and ways of knowing of Indigenous peoples;

- subject addresses the role, significance and impact of the contributions made to the subject by Francophones, including significant individuals, stories, ideas and histories in local and global contexts;

- competencies are developed within the subject, by describing the unique role and nature of the subject in developing all or certain competencies, in addition to how the competencies contribute to deep understanding of the subject and facilitate student engagement; and

- subject provides opportunities to further develop, strengthen and enhance literacy and numeracy.

In summary, the subject introduction ensures that each subject contributes to the vision for students, student values and meets students’ needs, cultural identity and perspectives in a consistent way.

The K–12 subject scope and sequence outlines the continuum of learning from one grade to the next. Scope refers to the breadth and depth of learning while sequence refers to how the learning is ordered, presented and scaffolded. Scopes and sequence consists of essential understandings, related guiding questions, and conceptual and procedural knowledge.

Also, the K–12 subject scope and sequence reflect an understanding of the nature of learning and the learner, supports inclusion, pluralism and diversity, First Nations, Métis and Inuit education for reconciliation, and Francophone cultures and perspectives.

As well, the K–12 scope and sequence for each subject demonstrates the building of deeper knowledge and understandings over the grades, and ensures horizontal and vertical alignment of essential understandings, related guiding questions, and conceptual and procedural knowledge within the subject. Scope and sequences provide the opportunity for planned alignment and connections across subjects, enabling interdisciplinary learning opportunities as appropriate.

**Essential Understandings and Guiding Questions**

Essential Understandings are broad statements that frame subject understandings of value to self, society and the subject. They may span over K–12 or be unique to a grade or series of

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31 Alberta’s *Essential Understandings and Enduring Understandings* (Wiggins & McTighe, 1998) differ primarily in their purposes.
grades. Some may be shared across subjects. The essential understandings provide the context for and the relevance to guiding questions and learning outcomes. For example, *Canadian laws affirm people’s individual and collective rights and foster social cohesion by recognizing the diversity of people living in Canada.*

**Guiding Questions** are derived from essential understandings and frame learning outcome(s). They are engaging and challenging questions for students and are written at a grade-appropriate level. When an essential understanding spans multiple grades, the guiding question introduces “gradedness.” It also guides the selection of the conceptual knowledge and/or procedural knowledge that will be developed in the learning outcome(s). For example, “How have various groups of people in Canada experienced discrimination by governments and how have these groups and governments responded?”

**Subject Learning Outcomes**

Resulting from the subject scope and sequence, that includes the guiding questions, the subject learning outcomes define, by subject and grade, the conceptual and/or procedural knowledge that students need to acquire. Conceptual knowledge is comprised of concrete and abstract concepts and procedural knowledge is comprised of techniques, strategies and processes.

The subject learning outcomes are formed by the integration of subject conceptual and/or procedural knowledge with one or more selected cross-curricular competencies, because competencies cannot be acquired in isolation and are only meaningful when integrated with subject knowledge. Learning outcomes, therefore, enable the concurrent development and application of subject conceptual and/or procedural knowledge and competencies.

The integration of knowledge and competencies ensures students—in addition to acquiring knowledge—are also able to apply that knowledge and to make connections within and outside of school or the subject. For a responsive and relevant provincial curriculum, this means going beyond “learning about” to include “learning to do.” Competencies are, therefore, selected with care by Alberta Education to achieve a balance among the competencies within a subject and a grade, and for ease of use by teachers.

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*Essential Understandings* are broad statements that capture the subject’s relevant and important conceptual and procedural knowledge to be included in the curriculum. They may span one or more grades. They also ensure that the K–12 curriculum is coherent vertically in the subject from one grade to the next and horizontally across subjects in a grade.

*Enduring Understandings*, comprised of two concepts connected by a verb, are derived from the Common Core State Standards (National Governors Association Center for Best Practices, Council of Chief State School Officers, 2010) and are used primarily by teachers to design instruction.

Similarly, Alberta’s **Guiding Questions** and **Essential Questions** (McTighe & Wiggins, 2004) differ in their purposes. **Guiding Questions** set the parameters for the development of conceptual and/or procedural knowledge within a learning outcome. **Essential Questions** are designed to frame “learning goals” for a “content standard.” They are a pedagogical device used by teachers to stimulate students’ curiosity and engagement as part of instructional design.

The term *learning outcome* describes what students are expected to know, understand, be able to do and put into action after the completion of a planned process of learning experiences.
Provincial curriculum shows the connections between learning outcomes and relevant literacy and numeracy progressions. Progressions are selected and identified by Alberta Education to indicate the literacy and numeracy that students will use, develop and enhance through learning outcomes, and for ease of use by teachers.

Learning outcomes bring together and therefore support the concurrent development of subject conceptual and procedural knowledge, competencies and literacy and numeracy.

Curriculum (programs of study) will therefore reinforce literacy, numeracy and competencies. Both competency indicators and literacy and numeracy progressions are provided to help teachers support student learning.

Provincial curriculum in all subjects will have a common architecture and design to ensure greater consistency and coherence across K–12 while supporting and reinforcing competencies and literacy and numeracy. Significantly, the common architecture and design make it easier and less time-consuming for teachers to apply their professional judgement to plan and teach in and across subjects, while enhancing the overall learning experiences for students. Teachers will have greater flexibility in meeting the learning needs of every student within inclusive learning environments where diversity is embraced and where every student is made to feel welcome, cared for, respected and safe.
Appendix A: Standards for the Development of Kindergarten to Grade 12 Provincial Curriculum\textsuperscript{33}, as well as Learning and Teaching Resources and Assessments

The Standards for Curriculum Development, as well as standards for Learning and Teaching Resources, and Assessments build upon the principles, and set out requirements and specifications that are used consistently by developers, partners and stakeholders to ensure that provincial curriculum meets the purpose for which it is designed. The use of Standards by curriculum developers is required so that goals and targets for Alberta’s K–12 provincial curriculum—as identified in the Ministerial Order on Student Learning: Goals and Standards Applicable to Education in Alberta (#001/2013)—are met.

The following Standards are applied holistically across subjects. They include Standards both for curriculum as a product and for curriculum development as a process. The numbering of the Standards and the ordering of the bullets do not imply a hierarchy of importance. The Standards are all of equal importance. The Standards for provincial curriculum will also be applied to learning and teaching resources.

**Standards for Provincial Curriculum (Programs of Study)**

**Inclusion, Accessibility and Equity**

<table>
<thead>
<tr>
<th>Standard 1: Curriculum is designed to enable learning opportunities that are equitable, inclusive and accessible to all Alberta students.\textsuperscript{34}</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Curriculum is designed to support diverse learning needs of all students.</td>
</tr>
<tr>
<td>• Curriculum is accessible in digital and print formats to enable learning with flexible timing and pacing in a variety of learning environments.</td>
</tr>
<tr>
<td>• Curriculum is written to enable the creation of learning opportunities that meet the specific needs of students, including those who require targeted or individualized instructional supports.</td>
</tr>
<tr>
<td>• Francophone students in Alberta have access to rich linguistic and cultural learning opportunities that support their unique identity through curriculum that is adapted, not directly translated, where appropriate.</td>
</tr>
<tr>
<td>• Curriculum is written to create opportunities for First Nations, Métis and Inuit ways of knowing.</td>
</tr>
</tbody>
</table>

\textsuperscript{33} Curriculum consists of the Kindergarten to Grade 12 (K–12) courses and programs of study developed by Alberta Education and prescribed by the Minister of Education.

\textsuperscript{34} For the purposes of these standards, the term “students” refers to all learners enrolled in Alberta’s ECS to Grade 12 education system.
### Multiple Perspectives and Diversity

**Standard 2:** Curriculum includes multiple, diverse perspectives that reflect our pluralistic society and the important roles and responsibilities of Alberta citizens within provincial, national and international contexts.

- Curriculum supports students in achieving a balanced understanding of social, cultural, political, economic and environmental perspectives that shape Alberta and its relationship with the rest of Canada and the world.
- Curriculum includes or reflects the diversity of Alberta’s students and society, by taking into consideration historical and contemporary contexts, gender, ethnicity, culture, beliefs and other distinguishing factors of identity.
- Curriculum supports students in becoming active, ethical and responsible citizens who make well-informed decisions and meaningful contributions to their families and to local and global communities.

**Standard 3:** Curriculum includes ways of knowing and diverse perspectives, in historical and contemporary contexts, of First Nations, Métis and Inuit.

- First Nations, Métis and Inuit traditional knowledge, experiences and languages and cultures are evident within meaningful, relevant and authentic learning outcomes.
- Curriculum includes First Nations, Métis and Inuit histories, including residential schools and their legacy, treaties and the diverse contributions of First Nations, Métis and Inuit to Alberta and Canada.

**Standard 4:** Curriculum includes the diverse perspectives, in historical and contemporary contexts, of Francophones living in Alberta, Canada and the world.

- Curriculum includes and respects the unique perspectives and experiences of Francophones.
Comprehensive, Developmentally Appropriate Scope and Sequence and Learning Outcomes

**Standard 5:** Curriculum is developmentally appropriate and written in clear and concise language for its intended audience and includes observable or measurable learning outcomes.

- Curriculum present a coherent K–12 scope and sequence that effectively achieves the balance between required subject content—including conceptual and procedural knowledge that enables students to progress to more challenging courses and programs from one grade to the next—and student-centred opportunities for deep learning.
- Learning outcomes in curriculum state actions that are developmentally appropriate to be accomplished by students, and are written in the active voice.
- Learning outcomes are written to be observed or measured, either qualitatively or quantitatively, to enable reporting of student progress, development or achievement.
- Learning outcomes at each grade are sufficient in number to encompass the depth and breadth of subject content and, as appropriate, include subject-specific terminology that will be familiar to the intended audience of teachers.
- Learning and teaching resources and provincial assessments align with learning outcomes in the curriculum and use clear language that is appropriate for students and can be understood by the broader community.

**Standard 6:** Curriculum is written to facilitate holistic student development.

- Curriculum makes clear the relationship among concepts within and across subjects through content selection that provides opportunities for students to synthesize related ideas, apply acquired knowledge and make connections among past, present and future learning.
- Curriculum provides students with opportunities to develop over time and across interconnected learning domains: intellectual, physical, social, spiritual and emotional.

**Standard 7:** Curriculum provides clear evidence of support for literacy and numeracy within and across subjects.

- Learning outcomes are designed to support the development of literacy and numeracy skills within and across subjects.
- Assessments and learning and teaching resources align with the literacy and numeracy progressions.
### Standard 8: Curriculum provides clear evidence of competencies within and across subjects.

- Curriculum is designed to provide opportunities for students to explore, develop and apply competencies within and across subjects to a degree that they are observable and/or measurable.
- Competency indicators identify attributes of a competency that students explore, develop and demonstrate while working toward achieving learning outcomes in each subject. Demonstration of the competency indicators will vary by grade, subject or context.

#### Assessments

### Standard 9: Assessments, whether classroom-based or provincial, are purposeful, fair and respectful of diverse learning needs. (Provincial Assessments are meant to complement, not replace, day-to-day teacher observations and classroom assessment.)

- Student assessments are accessible and measure achievement of the learning outcomes from provincially approved curriculum.
- Learning and teaching resources include assessments that are developed to collect varied evidence of student achievement over time, to measure the degree to which students are able to apply what they have learned, and to guide, inform and support further learning.
- Classroom assessment supports, including learning and teaching resources, are equitable for all students.
- Classroom assessment supports, including learning and teaching resources, are written to be transparent to all users (e.g., students, teachers, parents, educators) regarding what is being assessed, the method of assessment, performance standards that will be utilized to describe the learning, and how the results obtained will be used.

### Standard 10: Provincial assessments include the reporting of student learning and student achievement.

- Assessment information helps inform and enhance instruction for students.
- Assessment information assures Albertans that the education system meets the needs of students, achieves the outcomes of the *Ministerial Order on Student Learning* (#001/2013) and ensures that province-wide standards are maintained.
- Diploma Examinations certify the level of individual student achievement in selected 30-level courses.
Standards for Provincial Curriculum Development Processes

Consistent Processes for Development and Review

**Standard 11:** Quality curriculum is developed and reviewed regularly to ensure continual improvement using consistent processes as outlined in Alberta’s three interconnected phases: Shaping, Developing and Implementing.

- Curriculum is developed through the use and application of a common architecture and design for all Kindergarten to Grade 12 subjects.
- Curriculum development processes are designed to ensure that programs of study, assessments, and learning and teaching resources are aligned and mutually supportive.
- Curriculum developers determine how literacy, numeracy and competencies are related to the learning outcomes for each subject.
- The curriculum is developed and made available on a digital platform and is available for printing to facilitate ease of use by teachers and curriculum developers in a variety of learning environments.
- The process of curriculum development ensures the engagement of stakeholders, including subject experts such as teachers, post-secondary professors and other educators, parents, students, Albertans, groups and industry, and notably members of Francophone and First Nations, Métis and Inuit communities.
- Curriculum is developed and implemented simultaneously in French and English.
- Curriculum is implemented as a collaborative ongoing process, continuously building capacity with stakeholders.

**Standard 12:** Curriculum is reviewed for accuracy, currency and relevancy within a 48-month cycle.

- A review of the components of curriculum will occur at least once within 48 months of implementation to allow for improvements and updates based on research and feedback from the field and subject experts.
- An emergent review is initiated whenever there are significant, time-sensitive developments that affect the content of a subject.
Appendix B: Competencies

Competencies are combinations of knowledge, skills and attitudes that students develop and apply for successful learning, living and working. They emphasize aspects of learning that apply within and across all subjects. Alberta’s Kindergarten to Grade 12 provincial curriculum promotes development of the following competencies, which are a streamlined expression of the competencies in the Ministerial Order on Student Learning: Goals and Standards Applicable to Education in Alberta (#001/2013):

- Critical Thinking
- Problem Solving
- Managing Information
- Creativity and Innovation

- Communication
- Collaboration
- Cultural and Global Citizenship
- Personal Growth and Well-being

Competency Descriptions and Indicators

Competency descriptions provide an overview of key features of each competency. They holistically describe attitudes, skills and knowledge associated with each competency.

Competency indicators identify specific aspects of a competency that are transferable across subjects or contexts. Competency indicators:

- focus the scope of each competency;
- help teachers determine which aspects of a competency are evident within learning outcomes, learning experiences or assessments; and
- describe cognitive, affective or psychomotor behaviours to help identify situations where a competency may be applied or developed.

Teachers may use one or more indicators to identify situations that develop a particular competency. The ordering of the bullets does not imply a hierarchy of importance.

**Critical Thinking** involves using reasoning and criteria to conceptualize, evaluate or synthesize ideas. Students reflect on their thinking to improve it. They challenge assumptions behind thoughts, beliefs or actions. Students value honesty, fairness and open-mindedness.

Indicators:

- questioning and analyzing evidence, assertions or assumptions;
- applying reasoned approaches or relevant criteria to conceptualize, analyze or make judgements;
- reflecting upon and evaluating reasoning behind thoughts, beliefs or actions;
- synthesizing thoughts and information to discover or extend understandings; and
- demonstrating intellectual integrity, fairness and open-mindedness.

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**Problem Solving** involves selecting strategies and resources to move from what is known to what is sought. Students analyze situations, create plans of action and implement solutions. They evaluate alternatives and their consequences. Students approach challenges with creativity, flexibility and determination.

Indicators:

- identifying what is known and what is required to clarify a problem;
- exploring problem-solving strategies using relevant information, resources or criteria;
- assessing options to generate courses of action;
- evaluating the impact of possible solutions to carry out the most viable option; and
- approaching challenges with creativity, flexibility and determination.

**Managing Information** involves organizing and using information for specific purposes. Students access, interpret, evaluate and share information from a variety of digital and non-digital sources. They are ethical and effective in how they use and share information. Students value reliability, validity and integrity of information.

Indicators:

- assessing information from a variety of digital or non-digital sources;
- synthesizing or organizing multiple pieces of information to enhance or clarify understanding;
- evaluating authenticity, reliability or validity to appropriately interpret or use information; and
- using, sharing or storing information effectively and ethically.

**Creativity and Innovation** involves generating and applying ideas to create something of value. Students recognize opportunities to apply ideas in new ways. They are open to and play with ideas, take risks and adapt to changing conditions. Students demonstrate optimism, initiative and ingenuity.

Indicators:

- recognizing opportunities and imagining possibilities to apply ideas in new ways;
- exploring or playing with ideas, materials or processes to create something new;
- evaluating and adapting ideas, materials or processes in response to feedback or emerging conditions; and
- demonstrating initiative, resourcefulness and perseverance when transforming ideas into actions, products or services.
**Communication** involves sharing ideas through oral, written or non-verbal media. Students engage in formal and informal exchanges with others. They consider how culture, context and experience impact messaging. Students demonstrate respect, empathy and responsibility when communicating with others.

Indicators:
- clarifying the purpose or intention of a message in relation to audience, context or culture;
- considering perspectives, emotions and experiences when seeking shared understandings;
- decoding and interpreting ideas or information shared through verbal or non-verbal formats;
- expressing ideas or concepts using appropriate language, conventions or protocols; and
- demonstrating respect and responsibility when communicating with others.

**Collaboration** involves working with others to achieve a common goal. Students participate, exchange ideas and share responsibilities. They respect competing views and nurture positive relationships. Students are adaptable, willing to compromise and value the contributions of others.

Indicators:
- sharing responsibilities and supporting others to achieve a common goal;
- demonstrating sensitivity to diverse cultures, audience or contexts when working with others;
- exhibiting reciprocity and trust when sharing ideas or roles; and
- valuing flexibility, compromise and the contributions of others to nurture positive working relationships.

**Cultural and Global Citizenship** involves actively engaging with cultural, environmental, political or economic systems. Students acknowledge First Nations, Métis Inuit, Francophone or other perspectives when taking action on local or global issues. They advocate for the dignity and well-being of individuals and communities. Students value equity and diversity and believe in their capacity to make a difference.

Indicators:
- considering diverse perspectives when examining interactions within and among cultural, environmental, political or economic systems and communities;
- analyzing various ways in which decisions are made within cultural, environmental, political or economic systems;
- demonstrating responsible citizenship through actions that contribute to healthy and sustainable communities;
- evaluating the impact of decisions or actions on the dignity and well-being of individuals or communities; and
- valuing equity and diversity and believing in the capacity to make a difference.
**Personal Growth and Well-being** involves managing emotional, intellectual, physical, social and spiritual aspects of living. Students set learning, career or wellness goals and work toward them. They draw upon their strengths to develop interests, skills and talents. Students are reflective, resourceful and optimistic and they strive for personal excellence.

Indicators:

- identifying interests, values or skills to set learning, life or career goals;
- exploring, selecting or adapting strategies and resources that support personal growth in life, school or career pathways;
- making choices or taking action to promote the safety and well-being of self or others;
- building healthy relationships to support growth and well-being of self and others; and
- demonstrating optimism, flexibility or resilience when adapting to new situations and transitions.
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This list contains only those resources that are cited in the document.


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