



Board/Authority Authorized Course Framework Template

Dream. Believe. Achieve.

School District/Independent School Authority Name: School District#22 - Vernon	School District/Independent School Authority Number (e.g. SD43, Authority #432):
Developed by: Provincial Resource Centre for the Visually Impaired (PRCVI) in collaboration with BC Teachers of Students with Visual Impairments	Date Developed: June 2021
School Name: Inclusive Education – Vision Program	Principal's Name: Christine Love
Superintendent Approval Date (for School Districts only): <i>Feb 12/25</i>	Superintendent Signature (for School Districts only): <i>[Signature]</i>
Board/Authority Approval Date: <i>Feb 19 - 2025</i>	Board/Authority Chair Signature: <i>[Signature]</i>
Course Name: Expanded Core Curriculum – Braille 12 (ECC-VI-BRL)	Grade Level of Course: 12
Number of Course Credits: 4	Number of Hours of Instruction: 120

Board/Authority Prerequisite(s):

None.

Special Training, Facilities or Equipment Required:

This course requires a qualified teacher of students with visual impairments who is proficient in braille and access technologies. The students are taught using direct instruction on an individual basis (one-on-one) as there is usually only one student with a visual impairment in each school. Braille is scheduled as one of the electives and the Teacher of Students with Visual Impairments will create and assess the Braille Program while the Braille EA meets with the student during the appointed Block to work on Braille.

Course Synopsis:

Students will continue to learn and use the Unified English Braille (UEB) and will refine their skills in reading and producing braille with a variety of low- and high-tech devices. Students will also have opportunities to reflect on their learning by critically examining the uses of Braille in their daily lives. They will continue to explore braille use in other curriculum areas, develop projects, and research topics. Finally, students will continue to foster connections made with peers and mentors who are braille readers.

Goals and Rationale:

This course has been developed so that students who are blind or visually impaired continue to develop competencies in braille reading and writing. It will provide students with skills that will allow them to continue to access and enjoy a variety of literacy materials in an efficient reading medium.

There are several possible motivations for students to learn braille reading and writing skills in Grade 12. Students may use braille as their primary or secondary literacy medium for accessing learning materials in their coursework. They may also acquire braille reading and writing skills in advance of post-secondary education, entry into the workforce, or to access community-based activities and programs.

Across curricular areas, braille remains one of the most effective and pedagogically sound formats for non-visual access to learning content. This course continues the student's journey to becoming proficient in braille reading and writing within their secondary school career and beyond.

Indigenous Worldviews and Perspectives:

The course touches upon deeper issues and understandings that align with several First Peoples Principles of Learning.

- 1) Learning is embedded in memory, history, and story.

By refining their knowledge of the braille code, the student is part of a proud tradition of individuals with visual impairments gaining independent access to the written word, which dates back over two centuries. Course content emphasizes a historical study of braille as well as an examination of the role of braille in contemporary life. This content enables the student to feel better connected to the story of braille, the impact braille has had on the world, and the impact it can have in their own lives.

- 2) Learning requires exploration of one's identity.

For a learner to acquire the braille code at the secondary school level, it is likely that the student has experienced a significant change to their sensory profile that now requires non-visual access to learning materials. Learning the braille code does not happen in isolation from the socioemotional implications that vision loss can have for young people. This course emphasizes a grounded approach to learning braille by examining how braille is represented in our society and provides learners with the information and perspective needed to speak to their families and peers with confidence about the importance of braille. The course also emphasizes the importance of experienced mentors who read braille – not only to provide technical support but to also provide learners with a positive model.

- 3) Learning involves recognizing that some knowledge is sacred and only shared with permission and/or in certain situations.

One of the key features of ECC-VI-BRL 12 is that the course is individually created by a qualified Teacher of Students with Visual Impairments. Knowledge and fluency in the use and instruction of the braille code requires intense study and regular practice. In this way, the content of the course is shared in the context of the relationship between the learner, the Braille EA and the qualified Teacher of Students with Visual Impairments.

BIG IDEAS

Braille is an essential access medium for people requiring non-visual access to materials.

Braille reading and writing take place in social, cultural and historical contexts and are connected to feelings and attitudes toward visual impairment and its impact on the individual.

Learners can use multiple sensory modalities (vision, hearing, touch) to gather information in the learning environment.

Technology for braille reading and writing is vital to the learner's ability to access and analyze information at home, school, in the community, and in the workplace.

Connections to the braille-reading community contextualize and enrich braille usage for the individual learner.

Learning Standards

Curricular Competencies	Content
<i>Students are expected to do the following:</i> Problem Solving and Critical Thinking • Students will engage in problem solving when applying rules of UEB technical material and complex braille formats to their reading and writing. • Students will use critical thinking, analysis, and prior experience to determine which braille writing/production tool or device best meets their needs when completing a wide range of writing tasks. • Students will anticipate which situations may present barriers to braille access and determine which advocacy techniques are available for articulating their accessible alternate format requirements at school, work, and in the community. Comprehend and Connect (Reading, Writing, Drawing) • Students will complete a sequential process to learn more complex UEB code and rules. • Students will use systematic tactile strategies to explore and interpret complex tactile graphics, diagrams, and drawings. • Students will explore various methods and materials to create increasingly complex tactile drawings and diagrams. Reflect and Project • Students will reflect on the role of braille in their own learning process and will	<i>Students are expected to know the following:</i> Unified English Braille (UEB) Code Knowledge • All signs, symbols, and usage rules for literary braille; may include advanced UEB math/technical symbols and rules. • More complex formatting rules and guidelines. Braille Technology • Use and explore a variety of low-tech and high-tech braille production tools. • Use of high-tech braille digital file access with refreshable braille display and braille printer. Social and Historical Contexts of Braille • Knowledge of historical and current advocates for braille literacy and how the code has developed over the last two centuries. • Exploration of the implications of braille to early advances in education for learners with visual impairments.

critically examine how braille reading and writing will factor into their projected (future) plans. • Students will reflect on new technological developments in braille reading and writing in a socio-historical context. • Students will continue to expand their usage of UEB beyond academic tasks by connecting with mentors and peers who read braille, and by exploring options for using braille in leisure, employment, and leadership activities.	• Looking ahead and projecting new developments and trends of braille. Personal Connections • Understand how braille and other formats fit into your “toolkit” for accessing information. • Anticipate how braille reading and writing will factor you’re your future plans (e.g., post-secondary education, workplace). • Advocate for accessible format needs
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Big Ideas – Elaborations

- 1) Braille reading and writing are essential skills for students requiring non-visual access to learning materials.
 - a. Despite the proliferation of text-to-speech options available for accessing texts in digital format, braille remains the most pedagogically sound means of providing access to learning materials for students who require non-visual access to learn along with their typically sighted peers.
- 2) Braille reading and writing take place in social, cultural and historical contexts and are connected to feelings and attitudes toward visual impairment and its impact on the individual.
 - a. When braille is acquired as a new literacy medium at the secondary level, it is often in response to a change in the student's level of functional vision. As a result, there are a number of socio-emotional considerations that enter into braille instruction at the secondary level. Teachers of students with visual impairments must address socio-emotional considerations in tandem with braille code acquisition.
- 3) Learners can use multiple sensory modalities (vision, hearing, touch) to gather information in the learning environment.
 - a. Braille reading and writing requires the learner to use the sense of touch to gather rich information and to use other senses in coordination to access learning opportunities and curricular content. In learning to read and write in braille, tactile input takes on special significance for non-visual access as compared with the role of tactile input for visual access to learning content.
- 4) Technology for braille reading and writing is vital to the learner's ability to access and analyze information at home, school, in the community, and in the workplace.
 - a. Technology to support braille reading and writing is essential for efficient and effective access across a variety of settings. Developments in braille technology have greatly increased the breadth and depth of access to literacy materials for learners with visual impairments. In today's world, braille usage and technology are increasingly inextricable.
- 5) Connections to the braille-reading community contextualize and enrich braille usage for the individual learner.
 - a. Many students will be the only student in his or her school or community who reads and writes in braille. Therefore, it is critical that braille-reading students be connected to their peers who read braille as well as more experienced mentors. Community connections provide motivation, support, and connect the learner to a broader reality where braille is an inextricable part of everyday living.

Curricular Competencies – Elaborations

Problem Solving and Critical Thinking

- Determine locations and instances where braille could be used in your everyday life and identify advocacy opportunities to increase access.
- Compare and contrast the various braille technologies available on the market.
- Use a variety of low and high-tech devices for accessing, producing, and using braille.
- Evaluate different types of tactile diagrams that are best suited for representing information.
- Be able to analyze work and identify errors in both code usages and formatting rules.
- Assess the overall quality of their own personal reading and be able to analyze ways of accessing printed information in a medium that is compatible with their unique access requirements.

Comprehend and Connect (Reading, Writing, Drawing)

- Refine skills to increase speed and accuracy in braille reading and writing.

- Source, obtain, and read an increasing variety of braille materials.
- Become familiar with the formatting rules in a variety of complex and technical braille materials.
- Continue to develop skills for efficiently skimming and scanning braille, both hard copy and digital formats.
- Create complex or technical braille documents that can be back translated to print accurately. Use braille printer as well.
- Understand word processing concepts (e.g., headings levels) and apply them across different braille technologies.
- Continue to develop the ability to create, organize, and implement complex projects in braille. (ie, Capstone)
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Reflect and Project

- Self-reflect on the learning process and the role of braille and braille technology in terms of its advantages and disadvantages.
- Continue to incorporate braille into their school, home, community, and work activities.
- Continue to assess the influences of braille reading on their own literacy development as it relates to current and future access to information.
- Build upon research and knowledge of new developments in braille technology and assess the goodness of fit between this technology and current and future needs, including strategies and means to acquire new technology.
- Use braille technology to communicate with a mentor or peer who uses braille
- Provide mentorship to younger braille learners.
- Continue to examine, promote, and advocate for enhancing braille awareness and sharing of braille writing in the school and larger community, including connections with national and international advocacy organizations.

Content – Elaborations

Unified English Braille (UEB) Code Knowledge

- Technical signs, symbols, and usage rules.
 - Proficiency with the braille alphabet, all contractions, and code rules through a systematic program to promote literacy in braille.
- More complex formatting rules and guidelines.
 - Proficiency in braille formats for learning materials at the secondary and post-secondary level (e.g., poetry, drama).
 - Developing skill in other required braille codes (e.g., computer braille or braille music code).
 - Continued skill development in creating tactile images, diagrams, and graphs according to technical material guidelines.

Braille Technology

- Use a variety of low tech, manual braille production.
 - Proficiency in the use of the manual Perkins brailewriter.
 - Basic skills with a slate and stylus and handheld braille labellers.
- Advanced use of high-tech digital file access with refreshable braille display.
 - Use of refreshable braille in a variety of contexts (e.g., standalone notetaking device, braille display paired with computer or mobile device).
 - Basic knowledge of other braille technologies (e.g., braille embosser, braille translation programs).

Content – Elaborations

Social and Historical Contexts of Braille

- Knowledge of historical and current advocates for braille literacy and how the code has developed over the last two centuries.
 - Reading and discussing documents that examine the establishment of braille as the tactile reading medium worldwide (e.g., the “War of the Dots”).
 - Discussion and exploration of the development of specialized codes used internationally (e.g., music braille code).
 - Awareness of braille-related organizations (e.g., Braille Literacy Canada) and the programs they offer as well as the opportunities for participation in the future of braille and accessibility.
- The implications of braille to early advances in education for learners with visual impairments.
 - Continued exploration and discussion of to the limitations on the availability of braille and inclusive access for individuals with visual impairments as content for discussions on social justice and accessibility.
 - Exploring places in the community braille is available.
- Braille in our world.
 - Exploring texts and online content to learn about how braille is produced in other regions, countries. International perspectives provide opportunity for examination of global, national, regional, and local issues facing individuals with visual impairments. Students should be encouraged to formulate potential solutions to these issues.
- Looking ahead to new developments and trends.
 - Develop and apply strategies for keeping up to date with developments in new braille technology and major code changes.
 - Research the latest prototypes and speculative developments in braille technology and evaluate the prospective advantages and disadvantages to each.
 - Social justice and accessibility discussions (e.g., steps to address discrimination facing braille readers in Canada and/or abroad).

Personal Connections

- Understand how braille and other formats fit into your “toolkit” for accessing information.
 - Refine knowledge, skills, and experience to determine the combinations of accessible formats and technologies that maximize comprehension and efficiency.
- Anticipate how braille reading and writing will factor into your future plans (e.g., post-secondary education, workplace).
 - Proficiently and independently using strategies to access to print materials (e.g., OCR software, accessible library services) and independently produce print materials (e.g., essays back-translated from a braille notetaker).
- Advocate for accessible format needs at the school, work, community levels.
 - Articulate arguments that support the provision of accessible alternate format materials. Student may practice strategies for addressing advocacy challenges, such as writing a mock letter to a university professor or community organization.

Recommended Instructional Components:

Unit 1: Exploration

In this unit, students will explore the history of braille and its development. They will continue to develop proficiency in use of the braille code and consider ways in which braille could be used throughout their daily life.

Unit 2: Tactile Discrimination/Interpretation

In this unit, students will refine their skills in discriminating textures, lines, and characters used in complex tactile graphs, charts, and diagrams. They will analyze information that is presented in a tactile format as well as create their own tactile graphics.

Unit 3: Production

In this unit, students will develop braille writing and production skills using low- and high-tech devices. Students will be able to use the braillewriter to begin to produce material using the braille code. Students will produce digital braille files and use a braille printer.

Unit 4: Braille Reading

In this unit, students will continue to master their knowledge of the braille code. Students will also focus on increasing their speed and accuracy in braille reading. Students will learn to use a refreshable braille display.

Unit 5: Braille Writing

In this unit, students will produce braille with a high degree of accuracy. They will use braille to produce a variety of materials for leisure and school activities, including the use of technology for production.

Unit 6: Social/Emotional Components of Braille Reading/Writing

In this final unit, students will connect with other braille users, peer and adult mentors, and reflect on their own experiences learning and using braille.

Recommended Assessment Components:

Ensure alignment with the [Principles of Quality Assessment](#)

Type of Assessment	Category	Details	Weighting (%)
Formative	Practical applications	Teacher developed program	40%
	Teacher rating scale	End of Units 1-6	40%
Summative	Final assessment	Reading	10%
		Writing	10%
Total:			100%

- Eighty per cent (80%) of the grade will be based on evaluations conducted throughout the course. This portion of the grade will reflect the students' most consistent level of achievement throughout the course, although special consideration will be given to the more recent evidence of achievement. Twenty per cent (20%) of the grade will be based on a final evaluation of knowledge of UEB and other braille codes.

Performance Methods

- Braille code knowledge
- Projects
- Portfolio/binders/computer files
- Braille products evaluation
- Presentation of completed works
- Maintaining assignments on note taker

Personal Communication

- Student/instructor/Braille EA dialogue
- Logbook reflection
- Self-evaluation
- Teacher evaluation

Other

- Monthly assessment
- Teacher/Braille EA anecdotal records
- Teacher/Braille EA log
- Checklists
- Rubrics
- Rating scales

Learning Resources:

Farrenkopf, C. (2015). Assessment of Braille Literacy Skills: UEB and EBAE. (3rd Ed.). Houston, TX: Region 4 Education Service Center.

Holbrook, M. C. & D'Andrea, F. M. (2014). Ashcroft's Programmed Instruction: Unified English Braille. Germantown, TN: SCALARS Publishing.

International Council on English Braille (2014). Guidelines for Technical Material. Retrieved from

http://www.iceb.org/guidelines_for_technical_material_2014.pdf

International Council on English Braille (2013). Rules of Unified English Braille. (2nd Ed.). Retrieved from
<http://www.iceb.org/Rules%20of%20Unified%20English%20Braille%202013.pdf>

Wormsley, D. P. (2016). I-M-ABLE: Individualized Meaning-Centered Approach to Braille Literacy Education. Louisville, KY: American Foundation for the Blind.



BOARD/AUTHORITY AUTHORIZED (BAA) COURSE FORM

PART A: BAA COURSE VERIFICATION STATEMENT – To be completed by District Superintendent, Independent School, or Offshore School Principal

Prior to submitting the attached BAA Course Framework to the Board of Education or Independent School Authority (Board/Authority) for approval, I Karla Mitchell, Superintendent verify that I have reviewed the BAA Course to ensure that it is fully compliant with the *School Act* (if offered by a Board or Offshore School), the *Independent School Act* (if offered by an Independent School Authority), the *Board Authorized Course Order*, policy document *Board/Authority Authorized Courses: Requirements and Procedures Guidebook*, and for BAA ELL courses, the ELL Guidelines: *Template for Board/Authority Authorized Language Acquisition/Culture Courses at the Grade 10, 11, 12 Levels*.

By signing below, I verify that the BAA Course:

- ✓ is not preparatory, remedial, or modified
- ✓ does not significantly overlap with provincial curriculum Content
- ✓ name reflects the subject area and includes the Grade level
- ✓ assigned Grade reflects the appropriate level of instruction
- ✓ credit value appropriately reflects the length and scope of the course
- ✓ synopsis clearly outlines what a student has gained when the course is completed
- ✓ goals are general statements of intention that give structure to the curriculum
- ✓ rationale outlines the importance of the learning to the student and society
- ✓ embeds Indigenous Worldviews and Perspectives
- ✓ organizational structure outlines the Content, Curricular Competencies, and Big Ideas
- ✓ learning standards are assessable and observable and can be understood by students and parents
- ✓ recommended instructional component clarifies the learning standards and provides a range of pedagogical opportunities
- ✓ recommended assessment component aligns with the Principles of Quality Assessment
- ✓ learning resources are age appropriate, support learning standards and diversity of learning rates and styles.

Course Name: BA Expanded Core Curriculum - Braille 12 (ECC-VI-BRL) **Grade:** 12

TRAX Code: YSEVC2A
(e.g. YVPA)

School District Name and Number: Vernon School District #22

Independent School Name and Number:

Name of District Superintendent/Independent or Offshore School Principal:

Signature:

Date:

Feb 19/25

☐ Course intended to satisfy the Grade 11 Arts Education/Applied Design, Skills, and Technologies Graduation Requirement.

☐ Course intended to satisfy the Indigenous-focused Graduation Requirement.

☐ For Indigenous-focused Graduation Requirement courses only: Formal letter(s) signed by an authorized representative of the local First Nation(s) (e.g. Chief, Band Councillor, Education Coordinator/Director) on whose territory(ies) the course will be offered, confirming support for and co-development of the course is/are attached to the Form.

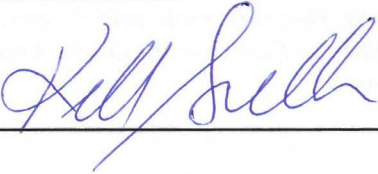
PART B: BAA COURSE AUTHORIZATION STATEMENT – To be completed by Board/Authority Chair or Designate or Executive Director of Independent Schools and International Education, Ministry of Education

A signed copy of this document must be submitted to the ministry's Graduation Programs and Policy team. The original document and accompanying BAA Course Framework must be retained by the district/school for submission to the Ministry upon request. (*Board Authorized Course Order*, M285/04, s. 3; *Educational Standards Order*, M41/91, s. 5 (2)(c))

☒ I declare that this BAA Course is approved by the Board/Authority or Executive Director.

Name of Board/Authority Chair or Designate or Executive Director of Independent Schools and International Education:

Signature:



Date: Feb 19/25

PART C: BAA INSPECTOR CONFIRMATION (FOR INDEPENDENT SCHOOLS ONLY) –

To be completed by Inspector of Independent Schools or Designate during regular inspection/monitoring visit

A signed copy of this document (Parts A and C) must be retained for submission to the Ministry upon request.

The BAA Course noted above is fully compliant with the Independent School Act and the BC Ministry of Education requirements outlined in the policy document *Board/Authority Authorized Courses: Requirements and Procedures*. (*Educational Standards Order*, M41/91, s. 5 (2)(c))

Name of Inspector of Independent Schools or Designate:

Signature:

Date:

Send completed form to the Ministry of Education and Child Care's
Graduation Programs and Policy team:

Email EDUC.GradStandards@gov.bc.ca