

Connections between Core and Curricular Competencies

BC Grades 10-12 Mathematics

Core Competencies	Curricular Competencies
<p>Communication</p> <p>Communicating</p> <ul style="list-style-type: none"> • <i>connect and engage with others</i> • <i>focus on intent and purpose</i> • <i>acquire and present information</i> <p>Collaborating</p> <ul style="list-style-type: none"> • <i>work collectively</i> • <i>support group interactions</i> • <i>determine common purposes</i> 	<p>Communicating and Representing</p> <ul style="list-style-type: none"> • Explain and justify mathematical ideas and decisions in many ways • Represent mathematical ideas in concrete, pictorial, and symbolic forms • Use mathematical vocabulary and language to contribute to discussions in the classroom • Take risks when offering ideas in classroom discourse
<p>Thinking</p> <p>Creative Thinking</p> <ul style="list-style-type: none"> • <i>create and innovate</i> • <i>generate and incubate</i> • <i>evaluate and develop</i> <p>Critical & Reflective Thinking</p> <ul style="list-style-type: none"> • <i>analyze and critique</i> • <i>question and investigate</i> • <i>design and develop</i> • <i>reflect and assess</i> 	<p>Understanding and Solving</p> <ul style="list-style-type: none"> • Develop, demonstrate, and apply conceptual understanding of mathematical ideas through play, story, inquiry, and problem solving • Visualize to explore and illustrate mathematical concepts and relationships • Apply flexible and strategic approaches to solve problems <p>Reasoning and Modelling</p> <ul style="list-style-type: none"> • Develop thinking strategies to solve puzzles and play games • Explore, analyze, and apply mathematical ideas using reason, technology, and other tools • Estimate reasonably and demonstrate fluent, flexible and strategic thinking about number • Model with mathematics in situational contexts • Think creatively and with curiosity and wonder when exploring problems
<p>Personal and Social</p> <p>Positive Personal & Cultural Identity</p> <ul style="list-style-type: none"> • <i>relationships and cultural contexts</i> • <i>personal values and choices</i> • <i>personal strengths and abilities</i> <p>Personal Awareness & Responsibility</p> <ul style="list-style-type: none"> • <i>self-advocate</i> • <i>self-regulation</i> • <i>well-being</i> <p>Social Awareness & Responsibility</p> <ul style="list-style-type: none"> • <i>build relationships</i> • <i>contribute to community & care for the environment</i> • <i>resolve problems</i> • <i>value diversity</i> 	<p>Understanding and Solving</p> <ul style="list-style-type: none"> • Solve problems with persistence and a positive disposition • Engage in problem-solving experiences that are connected to place, story, cultural practices, and perspectives relevant to local First Peoples communities, the local community, and other cultures <p>Connecting and Reflecting</p> <ul style="list-style-type: none"> • Reflect on mathematical thinking • Connect mathematical concepts with each other, with other areas and with personal interests • Use mistakes as opportunities to advance learning • Incorporate First Peoples worldviews and perspectives to make connections to mathematical concepts

Note: Many of the curricular competencies are connected to more than one core competency and this table is just meant as a guide to support teachers in planning and assessment and to support students' connection-making as they learn to self-assess their development of the core competencies. This table may also be useful in supporting the development of a competency-based IEP.