Grade 9 Curriculum Key Topics

**Math**

* Cultural perspectives of First Peoples for locating, measuring, and numbering
* Numerical and spatial reasoning, logic
* Patterns to solve puzzles and games
* Exponents
* Operations with polynomials, of degree less than or equal to two
* Types of income
* Operations with rational numbers
* Two-variable linear relations, using graphing, interpolation, and extrapolation
* Multi-step one-variable linear equations, including distribution and rational coefficients, constants, and solutions
* Probability and statistics in society
* Simple budgets and transactions

**Language Arts**

* Assess and edit writing
* Language constructs personal, social, cultural identity
* Access information and ideas and evaluate their relevance, accuracy, and reliability
* Literary elements, techniques and devices
* Develop an awareness of the diversity within and across First Peoples’ societies represented in texts
* Rhetorical devices
* Presentation techniques
* Connotations and denotation
* Language change over time

**Career Education**

* Connect interests with possible career paths
* Recognize the impact of personal public identity in the world of work
* Goal-setting
* Responsibility to contribute to community and world
* Career research skills

**Physical and Health Education**

* Daily participation in variety of physical activities
* Physical training principles
* Practices for health and mental well-being,
* Basic principles for responding to emergencies
* Strategies to protect themselves and others from potential abuse, exploitation, and harm
* Bullying, stereotyping, and discrimination
* Signs and symptoms of stress, anxiety, depression
* Changes that occur during puberty and adolescence
* Healthy sexual decision making
* Influence of health messages on behaviouri
* Media and social influences related to psychoactive substance use and potentially addictive behaviours

**Science**

* Asexual reproduction: mitosis, different forms
* Sexual reproduction: meiosis, human sexual reproduction
* Element properties as in the periodic table
* Circuits, voltage, current, and resistance
* Effects of solar radiation on the cycling of matter and energy
* Matter cycles within biotic and abiotic components of ecosystems
* Sustainability of systems and First Peoples’ principles of interconnectedness

**Social Studies**

1750-1919

* Political, social, economic, and technological revolutions
* The continuing effects of imperialism and colonialism on indigenous peoples in Canada and around the world
* Global demographic shifts
* Nationalism and the development of modern nation-states, including Canada
* Local, regional, and global conflicts
* Discriminatory policies, attitudes, and historical wrongs
* Physiographic features of Canada and geological processes
* Political, social, economic, and technological revolutions