

Grade 8 Curriculum Key Topics

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
- Role of story, narrative, and oral tradition in expressing First Peoples' perspectives, values, beliefs, and points of view
- Elements of non-fiction texts
- Presentation techniques

Science

- Characteristics of life
- Cell theory and types of cells
- Photosynthesis and cellular respiration
- The relationship of micro-organisms with living things: basic functions of the immune system, vaccination and antibiotics, impacts of epidemics and pandemics on human populations
- Kinetic molecular theory
- Atomic theory and models: protons, neutrons, and quarks; electrons and leptons
- Electromagnetic radiation
- Light: properties, behaviours, ways of sensing
- Plate tectonic movement
- Major geological events of local significance
- Layers in Earth

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
- Marketing and advertising tactics aimed at youth
- Media and social influences related to psychoactive

Math

- Cultural perspectives of First Peoples for locating, measuring, and numbering
- Logic and patterns to solve games and puzzles
- Percents less than 1 and greater than 100
- Perfect squares and cubes
- Square roots and Pythagorean Theorem
- Rates and proportional reasoning, ratio, proportions, and percent
- Operations with fractions
- Expressions and equations, writing and evaluating using substitution
- Two-step equations with integers
- Numerical proportional reasoning
- Surface area and volume of regular solids
- Construction, views, and nets of 3D objects
- Theoretical probability with two indep. events
- Financial literacy - best buys (e.g., coupons, proportions, unit price, products, and services)

Social Studies

7th Century to 1750

- Social, political, and economic systems and structures, including those of at least one indigenous civilization
- Scientific and technological innovations
- Philosophical and cultural shifts
- Interactions and exchanges of resources, ideas, arts, and culture btwn and among different civilizations
- Exploration, expansion, and colonization
- Changes in population and living standards
- Social, political, and economic systems and structures, including those of at least one indigenous civilization

Career Education

- Connect interests with possible career paths
- Recognize the impact of personal public identity in the world of work
- Goal-setting
- Volunteer in local community
- Factors affecting types of jobs in the community