Grade 4 Overall Expectations

Language-Writing

4e1 - communicate ideas and information for a variety of purposes and to specific audiences (e.g., write a brief research report on a class investigation for classmates):

4e2 - begin to write for more complex purposes (e.g., to present and discuss their opinions and viewpoints, to pose questions, to record information);

4e3 - organize and develop ideas using paragraphs (e.g., to tell a story):

4e4 - use simple and compound sentences and vary their sentence structure;

4e5 - produce pieces of writing using a variety of specific forms (e.g., humorous story) and materials from other media (e.g., photo sequence) to enhance their writing;

4e6 - produce media texts using writing and materials from other media (e.g., a cartoon);

4e7 - revise and edit their work, using feedback from the teacher and their peers:

4e8 - proofread and correct their final drafts, focusing on grammar, punctuation, and spelling;

4e9 - use and spell correctly the vocabulary appropriate for this grade level;

4e10 - use correctly the conventions (spelling, grammar, punctuation, etc.) specified for this grade level.

Language- Reading

4e27 - read a variety of fiction and non-fiction materials (e.g., short novels, myths, biographies, short articles) for different purposes;

4e28 - read aloud, speaking clearly and with expression;

4e29 - read independently, using a variety of reading strategies;

4e30 - state their own interpretation of a written work, using evidence from the work and from their own knowledge and experience;

4e31 - decide on a specific purpose for reading, and select the material that they need from a variety of appropriate sources:

4e32 - understand the vocabulary and language structures appropriate for the grade level;

4e33 - use conventions of written materials to help them understand and use the materials.

Language - Oral and Visual Communication

4e52 - communicate various types of messages, explain some ideas and procedures and follow the teacher's instructions;

4e53 - ask questions on a variety of topics and respond appropriately to the questions of others;

4e54 - communicate a main idea about a topic and describe a short sequence of events;

4e55 - express and respond to ideas and opinions concisely and clearly;

4e56 - contribute and work constructively in groups;

4e57 - demonstrate the ability to concentrate by identifying main points and staying on topic;

4e58 - identify several types of media works and some techniques used in them;

4e59 - analyse media works;

4e60 - create media works;

4e61 - use the conventions (e.g., sentence structure) of oral language, and of the various media, that are appropriate to the grade.
Mathematics- Number Sense and Numeration

4m1- represent, and explore the relationships between, decimals, mixed numbers, and fractions using concrete materials and drawing;

4m2- compare and order whole numbers and decimals using concrete materials and drawings;

4m3- compare and order mixed numbers and proper and improper fractions with like denominators using concrete materials and drawings;

4m4- understand and explain basic operations (addition and subtraction) of decimals by modeling and discussing a variety of problem situations;

4m5- develop proficiency in adding and subtracting decimal numbers to tenths;

4m6- select and perform computation techniques appropriate to specific problems involving whole numbers and decimals, and determine whether the results are reasonable;

4m7- solve problems involving whole numbers and decimals, and describe and explain the variety of strategies used

4m8- justify in oral or written expression the method chosen for calculations beyond the proficiency expectations for pencil-and-paper operations: estimation, mental computation, concrete materials, algorithms (rules for calculations), or calculators.

Mathematics- Measurement

4m34- demonstrate an understanding of and ability to apply appropriate metric prefixes in measurement and estimation activities;

4ni35- identify relationships between and among measurement concepts (e.g., millimetre to kilometre);

4m36- solve problems related to their day-to-day environment using measurement and estimation;

4m37 - estimate, measure, and record the perimeter and the area of two-dimensional shapes, and compare the perimeters and areas;

4m38- estimate, measure, and record the capacity of containers and the mass of familiar objects, compare the measures, and model the volume of three-dimensional figures.

Mathematics- Geometry and Spatial Sense

4m61- solve problems using geometric models;

4ni62- investigate the attributes of three-dimensional figures and two-dimensional shapes using concrete materials and drawings;

4ni63- draw and build three-dimensional objects and models;

4ni64- explore transformations of geometric figures:

4m65- understand key concepts in transformational geometry using concrete materials and drawings;

4m66- describe location and movements on a grid;

4m67- use language effectively to describe geometric concepts, reasoning, and investigations, and coordinate systems.

Mathematics- Patterning and Algebra

4m86- demonstrate an understanding of mathematical relationships in patterns using concrete materials, drawings, and symbols;

4m87- identify, extend, and create linear and non-linear geometric patterns, number and measurement patterns, and patterns in their environment;

4m88- recognize and discuss patterning rules;

4m89- apply patterning strategies to problem-solving situations.
Mathematics- Data Management and Probability
4m101- collect and organize data and identify their use;
4m102- predict the results of data collected;
4m103- interpret displays of data and present the information using mathematical terms;
4m104- demonstrate an understanding of probability and use language appropriate to situations involving probability experiments;
4m105- solve simple problems involving the concept of probability.

Science and Technology- Life Systems
4s1- demonstrate an understanding of the concepts of habitat and community, and identify the factors that could affect habitats and communities of plants and animals;
4s2- investigate the dependency of plants and animals on their habitat and the interrelationships of the plants and animals living in a specific habitat;
4s3- describe ways in which humans can change habitats and the effects of these changes on the plants and animals within the habitats.

Science and Technology- Matter and Materials
4s1 - demonstrate understanding that certain materials can transmit, reflect, or absorb light or sound;
4s2 - investigate materials that transmit, reflect, or absorb light or sound and use their findings in designing objects and choosing materials from which to construct them;
4s3 - explain why materials that transmit, reflect, or absorb light and/or sound are used in a variety of consumer products.

Science and Technology- Energy and Control
4s45 - demonstrate an understanding of the characteristics and properties of light and sound:
4s46 - investigate different ways in which light and sound are produced and transmitted, and design and make devices that use these forms of energy;
4s47 - identify technological innovations related to light and sound energy and how they are used and controlled at home and in the community, and determine how the quality of life has been affected by these innovations.

Science and Technology- Structures and Mechanisms
4s77 - demonstrate an understanding of the characteristics of pulleys and gears;
4s78 - design and make pulley systems and gear systems, and investigate how motion is transferred from one system to another;
4s79 - identify ways in which different systems function, and identify appropriate criteria to be considered when designing and making such systems.

Science and Technology- Earth and Space Systems
4s101 - demonstrate an understanding of the physical properties of rocks and minerals and the effects of erosion on the landscape;
4s102 - investigate, test, and compare the physical properties of rocks and minerals and investigate the factors that cause erosion of the landscape;
describe the effects of human activity (e.g., land development, building of dams, mine development, erosion-preventing measures) on physical features of the landscape, and examine the use of rocks and minerals in making consumer products.
Social Studies- HC- Medieval Times
4z1- identify the distinguishing features of medieval society;
4z2- describe the impact of Christianity, the Crusades, Islamic culture, and the Magna Carta on medieval society;
4z3- describe the ways in which medieval society has influenced modern Western society.

Social Studies- The Provinces and Territories of Canada
4z22 -describe the distinguishing physical features of regions within the provinces and territories;
4z23- identify how different regions are interdependent (e.g., with respect to their economies or governments);
4z24- demonstrate an awareness of the various relationships (e.g., economic, cultural) within and between Canadian regions.

French as a Second Language
4f1- talk about familiar topics, using very simple phrases and sentences;
4f2- listen to short, very simple oral texts, and respond to specific simple questions;
4f3- read a variety of very simple materials, 50 to 100 words long, containing basic learned vocabulary, and demonstrate understanding;
4f4- write very simple texts and responses following a model;
4f5- identify and use the vocabulary and the grammar and language conventions appropriate for this grade level.

Health and Physical Education- Healthy Living
4p1- explain the role of healthy eating practices, physical activity, and heredity as they relate to body shape and size;
4p2- identify the physical, interpersonal, and emotional aspects of healthy human beings;
4p3- use living skills to address personal safety and injury prevention;
4p4- identify the influences (e.g., the media, peers, family members) affecting the use of tobacco, as well as the effects and legalities of, and healthy alternatives to, tobacco use.

Health and Physical Education- Fundamental Movement Skills
4p15- perform the movement skills required to participate in lead-up games, gymnastics, dance, and outdoor pursuits: locomotion/traveling (e.g., sliding, gliding), manipulation (e.g., kicking, trapping), and stability (e.g., putting their weight on different body parts);
4p16- demonstrate the principles of movement in acquiring and then beginning to reline movement skills (e.g., combining directions and levels in sequence).

Health and Physical Education- Active Participation
4p23- participate on a regular basis in physical activities that maintain or improve physical fitness (e.g., tag games);
4p24- identify the benefits of physical fitness;
4p25- apply living skills — such as goal setting, conflict-resolution techniques, and interpersonal skills (e.g., playing fairly, co-operating, behaving respectfully) — to physical activities (e.g., games, gymnastics, dance, outdoor pursuits);
demonstrate a variety of interpersonal skills (e.g., playing fairly, co-operating, behaving respectfully);

follow safety procedures related to physical activity, equipment, and facilities.
The Arts - Music

4a1- demonstrate an understanding of the basic elements of music specified for this grade (see below) through listening to, performing, and creating music;

4a2- create and perform music, using a variety of sound sources;

4a3- use correctly the musical terminology associated with the specific expectations for this grade;

4a4- begin to read standard musical notation;

4a5- identify and perform music from various cultures and historical periods;

4a6- communicate their response to music in ways appropriate for this grade (e.g., through visual arts, drama, creative movement, language).

The Arts - Visual Arts

4a31- produce two- and three-dimensional works of art that communicate ideas (thoughts, feelings, experiences) for specific purposes and to specific audiences;

4a32- identify the elements of design (colour, line, shape, form, space, texture), and use them in ways appropriate for this grade when producing and responding to works of art;

4a33- describe their interpretation of a variety of art works, basing their interpretation on evidence from the works (i.e., on ways in which an artist has used the elements of design for expressive purposes) and on their own knowledge and experience;

4a34 - use correctly vocabulary and art terminology associated with the specific expectations for this grade.

The Arts - Drama and Dance

4a49- demonstrate understanding of some of the principles involved in the structure of works in drama and dance (e.g., variety, unity);

4a50- interpret and communicate the meaning of stories, poems, plays, and other material drawn from a variety of sources and cultures, using a variety of drama and dance techniques (e.g., techniques used in the activity of “inner and outer circle”);

4a51- communicate, orally and in writing, their response to their own and others’ work in drama and dance (e.g., through discussions, interviews, research projects);

4a52- identify and apply solutions to problems presented through drama and dance, and make appropriate decisions in large and small groups;

4a53- explain their use of available technology to enhance their work in drama and dance.