

BC Ministry of Education – Curriculum Prescribed Learning Outcomes.

Sciences. Kindergarten to Grade 7.

Grades K - 1

Life Science (Plant and Animal Characteristics)

It is expected that students will:

- describe the characteristics of a variety of plants
- describe the diversity of plants within the home and school environment
- collaborate with others in the care of a plant or animal
- describe the appearance and behaviour of a variety of animals
- determine the requirements of healthy plants and healthy animals
- identify similarities and differences among animal species

Life Science (Plant and Animal Life Cycles)

It is expected that students will:

- identify the stages in the life cycle of a plant and of a pet or other animal
- demonstrate how plants and other organic material can be recycled back into the environment
- compare the life cycle of an animal hatched from an egg with one born from the mother

Grades Two and Three

Life Science (Plants in the Environment)

It is expected that students will:

- demonstrate a knowledge of how plants take in water, nutrients, and light
- compare and contrast different types of plant life cycles
- describe structures that enable different plants to survive in different environments
- compare and contrast plant fossils with living organisms
- suggest reasons for the endangerment or extinction of plant species

Life Science (Animals in the Environment)

It is expected that students will:

- compare and contrast different types of animal life cycles
- compare and contrast plant and animal life cycles
- describe structures that enable animals to survive in different environments
- demonstrate a knowledge of what animals need to survive
- explain how animals interact with one another
- compare and contrast animal fossils with living organisms
- suggest reasons for the endangerment or extinction of animal species

Grade 4

Life Science (Adaptations of Organisms)

It is expected that students will:

- relate the structure and behaviour of local organisms to their survival in local environments
- discuss how changes in an organism's habitat can affect the survival of individual organisms and entire species
- give examples of how the differences in individuals of the same species may give an advantage in surviving and reproducing
- relate the growth and survival of organisms to a variety of conditions

Grade 5

Life Science (B.C.'s Living Resources)

It is expected that students will:

- identify living resources in the local environment
- describe how humans use B.C.'s living resources
- describe the known and potential environmental impacts of using B.C.'s living resources
- devise a strategy for sustaining a living resource

Grade 6

Life Science (Classification of Organisms)

It is expected that students will:

- describe how all living things belong to one of five kingdoms (Plants, Animals, Monera, Protista, Fungi)
- classify plants and animals according to their internal and external features
- develop common classification systems for organisms

Life Science (Microscopic World)

It is expected that students will:

- describe all living things as being composed of cells
- identify the characteristics of various single-celled organisms
- describe the similarities and differences in plant and animal cells
- analyze the effects of micro-organisms on other organisms
- describe the human body's various defenses against harmful micro-organisms

Grade Seven

Life Science (Ecology)

It is expected that students will:

- describe all organisms in terms of their roles as part of interconnected food webs
- describe ways in which species interact with each other
- compare and contrast the major biogeoclimatic zones of B.C.
- determine the limiting factors for local ecosystems
- outline the stages of recovery of a damaged local ecosystem

Life Science (Body Systems - Reproduction, Growth, & Change)

It is expected that students will:

- compare and contrast asexual and sexual reproduction in both plants and animals
- describe the growth and changes in the development of an organism
- outline factors that influence the length and quality of life