

Grade 8 Science

In the grade 8 science classroom, students are actively engaged in "doing" science and developing related skills and attitudes, as well as extending their understanding of science concepts. In addition, they make links between science and daily life and appreciate both the power and limitations of science.

Grade 8 students develop an understanding of science concepts in the following units (thematic clusters):

- Cells and Systems
- Optics
- Fluids
- Water Systems
- These topic areas serve as contexts for students to develop the following skills, attitudes, and understanding about the nature of science:
- Recognize that scientific knowledge has evolved and that technology has played a role in this process.
- Plan and conduct experiments that constitute a fair test, including controlling variables, recording and analyzing data, and drawing a conclusion based on experimental results.
- Construct an object or device to solve a problem, based on specific criteria.
- Investigate societal, environmental, and economic impacts of science and technology.
- Recognize the importance of maintaining a balance between the needs of humans and a sustainable environment.
- Appreciate the contributions of Canadians to science and technology.

Students will be assessed based on the following three learning outcomes.

1. Knowledge and understanding
2. Scientific inquiry process
3. Design process and problem solving