

# Mr. Watts' Webpage

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## SNC1D - Homepage

The grade 9 academic science course enables students to develop a deeper understanding of basic concepts in biology, chemistry, physics, and earth and space science; to develop skills in the process of scientific inquiry; and to relate science to technology, society, and the environment. Students will learn scientific theories and conduct investigations related to ecosystems and the environment; atomic and molecular structures and the properties of elements and compounds; the universe and space exploration; and the principles of electricity.

The grade 9 academic science course consists of the following units and their subtopics.

### **SNC1D Links**

[Physics Unit](#)

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## Biology: Sustainable Ecosystems

### **Overall Expectations:**

- assess the impact of human activities on the sustainability of terrestrial and/or aquatic ecosystems, and evaluate the effectiveness of courses of action intended to remedy or mitigate negative impacts;
- investigate factors related to human activity that affect terrestrial and aquatic ecosystems, and explain how they affect the sustainability of these ecosystems;
- demonstrate an understanding of the dynamic nature of ecosystems, particularly in terms of ecological balance and the impact of human activity on the sustainability of terrestrial and aquatic ecosystems.

## Chemistry: Atoms, Elements, and Compounds

### **Overall Expectations:**

- assess social, environmental, and economic impacts of the use of common elements and compounds, with reference to their physical and chemical properties;
- investigate, through inquiry, the physical and chemical properties of common elements and compounds;
- demonstrate an understanding of the properties of common elements and compounds, and of the organization of elements in the periodic table.

## Earth and Space Science: The Study of the Universe

### ***Overall Expectations:***

- assess some of the costs, hazards, and benefits of space exploration and the contributions of Canadians to space research and technology;
- investigate the characteristics and properties of a variety of celestial objects visible from Earth in the night sky;
- demonstrate an understanding of the major scientific theories about the structure, formation, and evolution of the universe and its components and of the evidence that supports these theories.

## Physics: The Characteristics of Electricity

### ***Overall Expectations:***

- assess some of the costs and benefits associated with the production of electrical energy from renewable and non-renewable sources, and analyse how electrical efficiencies and savings can be achieved, through both the design of technological devices and practices in the home;
- investigate, through inquiry, various aspects of electricity, including the properties of static and current electricity, and the quantitative relationships between potential difference, current, and resistance in electrical circuits;
- demonstrate an understanding of the principles of static and current electricity.