

Course Outline 2018/2019

SNC1D1 - Science, Grade 9, Academic



All courses within HDSB are taught in learning environments that promote inclusive education, and identify and eliminate discriminatory biases, systemic barriers, and power dynamics that limit the ability of students to participate, learn, grow, and succeed. All students see themselves reflected in the curriculum, their physical surroundings, and the broader environment, so that they are engaged in and empowered by their learning experiences.

The expectations in Grade 9 Academic Science are organized in five strands, the first focusing on scientific investigation skills and the remaining four representing the major content areas in the science curriculum. The five strands are as follows:

<p>Scientific Investigation Skills and Career Exploration</p> <ul style="list-style-type: none"> ❑ Demonstrate scientific investigation skills in four areas: initiating and planning, performing and recording, analysing and interpreting and communicating. ❑ Identify and describe a variety of careers related to the fields of science under study, and identify scientists, including Canadians, who have made contributions to those fields. 	
<p>Physics</p> <ul style="list-style-type: none"> ❑ Electricity is a form of energy produced from a variety of non-renewable and renewable sources. ❑ The production and consumption of electrical energy has social, economic, and environmental implications. ❑ Static and current electricity have distinct properties that determine how they are used. 	<p>Earth and Space Science: The Study of the Universe</p> <ul style="list-style-type: none"> ❑ Different types of celestial objects in the solar system and universe have distinct properties that can be investigated and quantified. ❑ People use observational evidence of the properties of the solar system and the universe to develop theories to explain their formation and evolution. ❑ Space exploration has generated valuable knowledge but at enormous cost.
<p>Biology: Sustainable Ecosystems</p> <ul style="list-style-type: none"> ❑ Ecosystems are dynamic and have the ability to respond to change, within limits, while maintaining their ecological balance. ❑ People have the responsibility to regulate their impact on the sustainability of ecosystems in order to preserve them for future generations. 	<p>Chemistry: Atoms, Elements and Compounds</p> <ul style="list-style-type: none"> ❑ Elements and compounds have specific physical and chemical properties that determine their practical uses. ❑ The use of elements and compounds has both positive and negative effects on society and the environment.

Learning Skills & Work Habits

- ❑ Responsibility
- ❑ Organization
- ❑ Self-Regulation
- ❑ Independent Work
- ❑ Collaboration
- ❑ Initiative

Learning skills and work habits are an important part of your growth. Learning Skills and Work Habits will be taught, assessed, evaluated, and shared on your report card. This gives you and your parents/guardians valuable information about your learning.

How your grades will be determined	
<p>Your work throughout the semester accounts for 70% of your final grade:</p> <ul style="list-style-type: none"> • Your teacher will collect and track evidence of your learning through observations of your work; conversations with you; and by evaluating the work you produce. • Your teacher will provide feedback to help you with further study and improvement • Your 70% work will be returned for your review and reflection. 	<p>15% Knowledge & Understanding: subject-specific content acquired (knowledge), and the comprehension of its meaning and significance (understanding).</p> <p>20% Application: the use of knowledge and skills to make connections within and between various contexts.</p> <p>20% Thinking: the use of critical and creative thinking skills and/or processes.</p> <p>15% Communication: the conveying of meaning through various forms (oral, visual, and/or written).</p> <p><i>(The Science Teacher Subject Council has determined the weightings of the above categories for this course)</i></p>
<p>The Final Evaluations account for 30% of your final grade³:</p> <ul style="list-style-type: none"> • Final Evaluations will challenge you to demonstrate your knowledge and skills related to the overall expectations for the course 	<p>15% In Class Final Evaluation:</p> <p>This portion of your Final Evaluation will take place in class at or near the end of your course during protected time. It will not require significant preparation outside of class time.²</p> <hr/> <p>15% Evaluation Block Final Evaluation:</p> <p>This portion will take place during the Evaluation Block of time after classes end and will be a maximum duration of 1 hours.</p>
<p>Your final grade will be calculated by combining your Term (70%) grade and your Final Evaluations (30%).</p>	

For more information about what you need to know about...

- 1) [Meeting Timelines and Academic Honesty](https://goo.gl/KTAh40) ¹- goo.gl/KTAh40
- 2) [Final 30% Evaluations](https://goo.gl/W82PYL) ² - goo.gl/W82PYL
- 3) [Determining Report Card Grade](https://goo.gl/FuzbMW) ³ - goo.gl/FuzbMW

Your teacher can provide you with a paper copy of this information if required.