



C·o·m·p·u·l·s·o·r·y C·o·u·r·s·e·s

SCIENCE

Academic Science, Grade 9 (SNC1D)

If you take **Academic Science** you can anticipate:

- learning abstract science concepts as well as some concrete applications;
- learning through inquiry-based problem solving;
- learning through laboratory experiments;
- learning through theoretical lessons on the following topics: Chemistry, Electricity, Ecology and Astronomy.

Applied Science, Grade 9 (SNC1P)

If you take **Applied Science** you can anticipate:

- learning practical applications of science concepts as well as some abstract concepts;
- learning through inquiry-based, but guided problem solving;
- learning through demonstrations and laboratory experiments;
- learning through structured lessons on the following topics: Chemistry, Electricity, Ecology and Astronomy.

Try the following multiple choice quiz to test your knowledge in each of the four (4) course topics (answers can be found below):

- Which element is considered a metal?
(a) Oxygen (b) Calcium (c) Nitrogen (d) Neon (e) Argon
- Which of the following is not essential for a circuit to run?
(a) Switch (b) Source (c) Wires (d) Load (e) Voltmeter
- Which country has the highest per capita (per person) consumption of energy in the world?
(a) Canada (b) U.S. (c) Australia (d) Iceland (e) England
- This planet is often considered Earth's "sister planet" because of its similar size.
(a) mercury (b) Mars (c) Venus (d) Jupiter (e) Saturn

How did you do?

If you found these questions difficult or challenging, **applied** science may be an appropriate choice.*

If you found these questions fairly straightforward and/or easy, **academic** science may be an appropriate choice.*

*Also take into consideration your achievement in Grades 7 and 8, your learning preferences, and your post-secondary plans.

O·p·t·i·o·n·a·l C·o·u·r·s·e·s

Open Level Courses

In most cases in Grade 9, you will take your three optional courses at the open level. A Grade 9 open course is appropriate for all students in Grade 9. The courses are designed to help provide a broad subject base that will enrich your education and prepare you for future studies. More information about optional courses will be provided at GCI's Grade 8 night in January and/or through the counselling department.



Art

- Visual Arts (AVI 10I)



Family Studies

- Food and Nutrition (HFN 10I)



Technological Education

- Integrated Technologies (TIJ 10I)
- Computer Technology (TEJ 10I)



Music

- Instrumental (Beginner & Experienced; AMI10I/X)
- Vocal (AMV 10I)



Health & Physical Education

- Healthy Active Living Education (PPL 10X/Y)
- Large Group Activities - Hockey (Co-ed; PPL10I)



Business

- Introduction to Business (BBI 10I)
- Intro. to Information Tech. in Business (BTT 10I)

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Grade 9

Use the charts below to show the Grade 9 courses you would like to take:

Compulsory Courses

	✓ Academic	✓ Applied
English		
French		
Geography		
Math		
Science		

Optional Courses

Option 1:	
Option 2:	
Option 3:	

If you have questions about changing from applied to academic or *vice versa* in Grade 10, please speak to a guidance counsellor.

Requirements for the Ontario Secondary School Diploma (OSSD)

To earn an OSSD, you must:

- Earn 30 credits (18 compulsory; 12 optional)
- Complete 40 hours of community involvement activities
- Meet the provincial secondary school literacy diploma requirement.

French Answers:

- adore
- jouons
- perdons
- finit
- attends
- arrivent
- mangeons
- parlons
- nage

Math Answers:

- (a) solution: $(-4)^2 + (-1) - 4 = 11$ 2. (c) $12^2 = x^2 + 7^2$, $144 = x^2 + 49$, $95 = x^2$, $x = \sqrt{95}$, $\therefore x \approx 9.7 \text{ cm}$
- (a) solution: $\$35.25 - \$12.50 = \$22.75$; $\$22.75 \div \$1.75 = 13$
- (a) and (c) solution: $\frac{1}{4} + \frac{1}{12} + \frac{1}{3} = \frac{3}{12} + \frac{1}{12} + \frac{4}{12} = \frac{8}{12} = \frac{2}{3}$; $\frac{8}{12} - \frac{8}{12} = \frac{4}{12} = \frac{1}{3}$
- (d) solution: $\$75 \times 25\% = \18.75 ; $\$75 - \$18.75 = \$56.25$; $56.25 \times 13\% = \$7.31$; $\$56.25 + \$7.31 = \$63.56$.

Geography Answers:

- (b)
- (d)
- (a)
- (a)
- (c)

Science Answers:

- (b)
- (e)
- (d)
- (c)