

BHS Secondary 3: Choosing for Success

You have the choice of two different paths for general education in secondary 3:

- General Education Pathway
- Applied Education Pathway

Both paths lead to the identical high school leaving diploma

Why are there two Paths?

Students learn in different ways and the pathways give you a choice of how you would like to learn. The Ministry of Education, Leisure & Sport (MELS) is offering two pathways so that you can choose your own path to success.

Which Path is Best for Me?

Let's compare the courses you will take in secondary 3 for the two paths:

Similarities:

You will take the following courses whether you choose the general education path or the applied general education path:

English Language Arts

French, Second Language

Mathematics

History and Citizenship Education

Physical Education and Health

Arts Education Option: Drama, Dance, Music, Art,

Option B: Computer Science, POP, Sports Fitness, Advanced Arts

Differences

General Science & Tech	Applied Science & Tech
General Science and Technology	Applied Science and Technology
Option Course	Personal Orientation Project

How do the science courses compare?

- Same three competencies
- Nearly identical evaluation criteria and learning outcomes
- Hands-on learning in both courses
- 90% of the content in common in secondary 3
- Same textbook is used
- *Different in approach and focus*

General Science & Technology

The science and technology program is designed to help students gain a better understanding of scientific phenomena and technological achievements in order to understand more and make decisions about the world around them.

Applied Science & Technology

The applied science & technology program is designed to help students gain a better understanding of scientific phenomena and technological achievements in order to develop a deeper understanding of how things work and to deal more effectively with technical objects, systems, products and processes in the world around them.

	Science & Technology	Applied Science & Technology
Key Element	Scientific method Forming opinions about scientific and technological issues	Technological Design Process Developing an understanding how things work
Starting Point	A scientific phenomenon or issue	A technological application
Emphasis	More science activities than technological analysis or design activities	More technological analysis or design activities than science activities
Example Approach	Your best friend has asthma and you would like to learn more about the factors that affect respiratory health to help him reduce the frequency of his asthma attacks. You could be asked to: <ul style="list-style-type: none">• Examine the respiratory system• Design and conduct an experiment to determine what factors affect respiration• Examine a stethoscope from a scientific and technological point of view to understand how it allows one	Your mother is a respiratory therapist. You have broken her stethoscope. You decide to build a replacement that will allow her to hear heartbeats and air moving in and out of the lungs. You could be asked to: <ul style="list-style-type: none">• Analyze a technical object (stethoscope, speakers, drum) to understand the concepts involved• Design and construct a replacement stethoscope (using the physics of sound waves, pressure-volume relationship, etc)

	<p>to hear both the heartbeat and air moving in and out of the lungs</p> <ul style="list-style-type: none"> Use information from research and experimental results to make suggestions on how to maintain good 	<ul style="list-style-type: none"> Prepare a technical manual describing the operation and function of the object Examine the respiratory system, using what was learned about the stethoscope as a starting point.
--	---	---

Where does each pathway lead ?

The diagram below gives an overview of the pathways for secondary cycle 2, with a focus on the science courses.

Important points to remember:

Both paths lead to the identical high school leaving diploma

At the end of secondary 3, you may switch paths if you choose

In order to take the secondary 5 science options, you must take 8 credits of advanced science in Secondary 4

- Chemistry/Physics Pathway: Students take Advanced Science: 8 credits
- Non Chem/Physics Pathway: Students take General or Applied Science: 6 credits

GENERAL EDUCATION PATH AND APPLIED EDUCATION PATH

