



# Computer Science Mini Sept 2024

Killarney Secondary

# Benefits CS Mini

- Head start
- Opportunities
- Strong foundation in IT
- Flexibility
- Open
- District IT program
- Post-secondary
- Employable skills

# Benefits Killarney

- A Top IT program
- Big variety of clubs and teams
  - Programming
  - Cyber Security
  - Robotics
  - League of Legends
- Community oriented
- IT & Math competitions



# Competitions

- BC Skills
- Canadian Computing Competition
- Cyber defense Challenge
- PicoCTF
- FIRST Technical Challenge
- Other IT competitions

# Type of Student

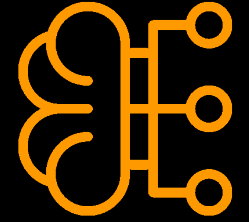
- Curious
- Challenges
- Does not give up
- Willing to try
- Maintains strong standing in courses
- Team/Group oriented
- Independent
- Respectful



# 5 Concentrations



Web



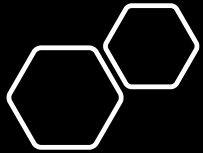
Machine Learning

# Computer Science

AI

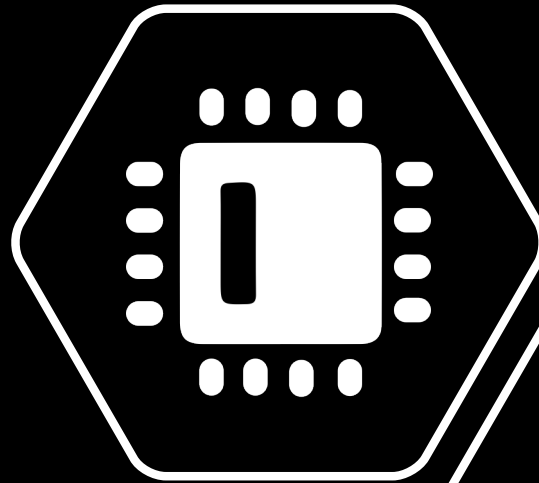


Database

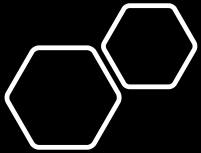


# Systems Administrator

- A+
- Linux

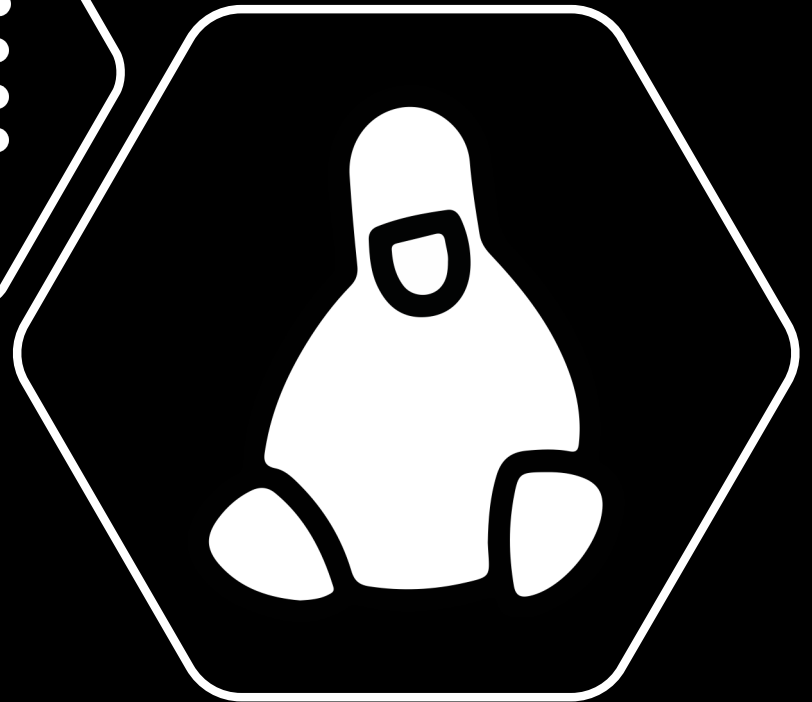
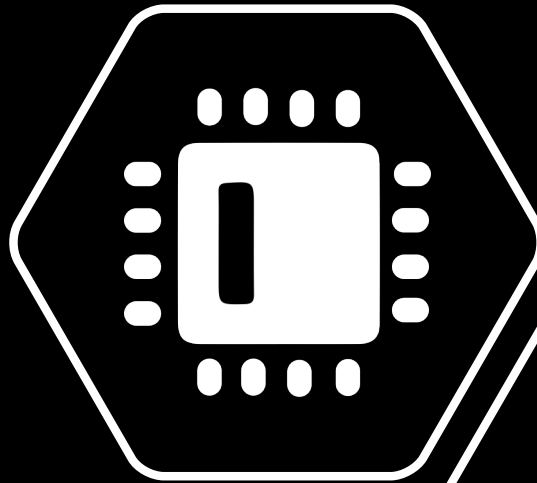


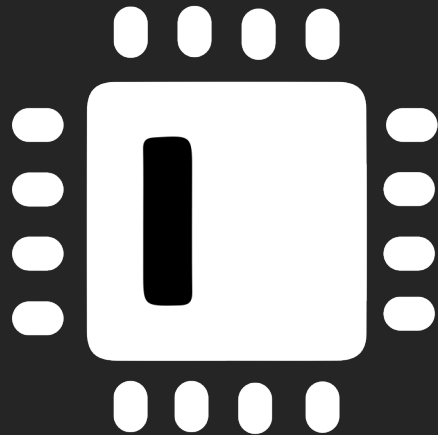
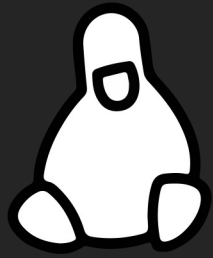




# Network Administrator

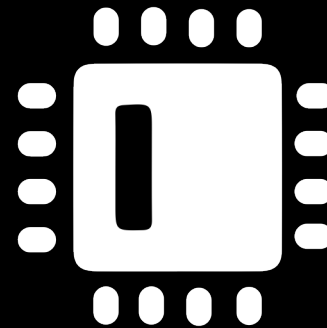
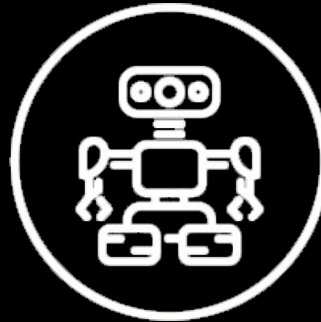
- Cisco
- CCNA
- Linux
- A+





Cyber  
Security

# Robotics



First Robotics  
or  
Vex Robotics

# Grade View

A yellow right-angled triangle is positioned in the bottom right corner of the slide, partially overlapping the white border.

| Grade 8                                | Grade 9          |
|--|------------------|
| Mini Math 8                            | Mini Math 9      |
| Mini Science 8                         | Mini Science 9   |
| Computer Studies 10                    | Programming 11   |
| English 8                              | English 9        |
| Socials Studies 8                      | Social Studies 9 |
| French 8                               | French 9         |
| PE 8                                   | PE 9             |
| Applied skills 8<br>Fine Arts Elective | Any Elective     |

Grade 8 -10  
Math and Science  
curriculum  
covered in 2 years  
cohort

# Science Curriculum Unit Distribution

| Grade 8   | Grade 9   |
|---|---|
| <b>Science Process Skills</b><br><b>Biology</b> <ul style="list-style-type: none"><li>Cells and Pathogens</li><li>Reproduction</li><li>Genetics</li><li>Bioethics</li></ul> <b>Physical Science</b><br><b>Plate Tectonics</b> | <b>Science Process Skills</b><br><b>Chemistry</b> <ul style="list-style-type: none"><li>Atoms and the Periodic Table.</li><li>Chemical compounds</li><li>Characteristics of reactions</li></ul> <b>Physical Science</b><br><b>Ecology</b> |

## JR LEVEL CONTESTS

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BEAVER COMPUTING  
CHALLENGE

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GAUSS MATH CONTEST

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PASCAL MATH CONTEST

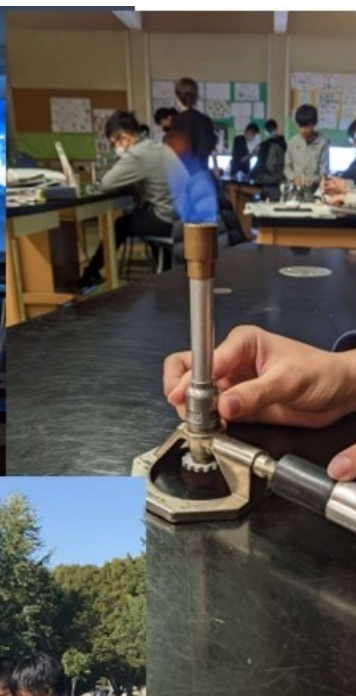
| Grade 8                                | Grade 9          | Grade 10   | Grade 11                               | Grade 12      |
|--|------------------|--|--|---------------|
| Mini Math 8                            | Mini Math 9      | Pre-Calculus 11  | Pre-Calculus 12                        | Calculus 12   |
| Mini Science 8                         | Mini Science 9   | At least one of:<br>Biology 11<br>Chemistry 11<br>Physics 11 | Any Elective                           | Mini Elective |
| Computer Studies 10                    | Programming 11   | Linux  | Mini Elective                          | Mini Elective |
| English 8                              | English 9        | English 10   | English 11                             | English 12    |
| Socials Studies 8                      | Social Studies 9 | Social Studies 10  | Social Studies 11/12                   | Any Elective  |
| French 8                               | French 9         | French 10<br>Beginning Japanese 11<br>Beginning Spanish 11   | French 11<br>Japanese 11<br>Spanish 11 | Any Elective  |
| PE 8                                   | PE 9             | PE 10  | Any Elective                           | Any Elective  |
| Applied skills 8<br>Fine Arts Elective | Any Elective     | Any Elective   | Any Elective                           | Any Elective  |





Courses

| Grade                        | Computer Science    | System Admin.        | Network Admin.       | Cyber Security      | Robotics            |
|------------------------------|---------------------|----------------------|----------------------|---------------------|---------------------|
| 8                            | Computer Studies 10 | Computer Studies 10  | Computer Studies 10  | Computer Studies 10 | Computer Studies 10 |
| 9                            | Programming 11      | Programming 11       | Programming 11       | Programming 11      | Programming 11      |
| 10 – 11<br>Exploration Years | Linux               | Linux                | Linux                | Linux               | Linux               |
|                              | Computer Science 11 | Hardware 10          | Hardware 12          | Hardware 10         | Hardware 10         |
|                              | Computer Science 12 | Networking 11        | Networking 11        | Networking 11       | Comp. Sci. 11       |
| 12<br>Specialization         | Programming 12      | Hardware 12          | Networking 12        | Networking 12       | Robotics 11         |
|                              |                     |                      |                      |                     |                     |
| Clubs:                       | Programming         | Programming Robotics | Programming Robotics | Cyber Security      | Robotics            |



# How to apply

- School website:  
Teaching and Learning
- Programs
- Mini School

• **Parent and Student Information Night: THURSDAY, NOV. 9TH, 6PM - Killarney Auditorium. APPLICATIONS WILL BE ACCEPTED FROM NOV. 9TH - DEC. 8TH, 2023.**

• How to apply to the Killarney Computer Science Mini School:  
• **Download** the KILLARNEY CS APPLICATION FORM. The application form is a fillable PDF file. A paper copy is also available from our main office.

• Complete the KILLARNEY CS APPLICATION FORM and PRINT. Attach MOST RECENT REPORT CARD AND PHOTO. Incomplete packages will not be considered nor will you be contacted should the package be incomplete.

• **Submit** complete hard copy package to the Killarney Main Office at 6454 Killarney St. by **3:30pm, Dec. 8TH, 2023**. A complete package includes:

- KILLARNEY CS APPLICATION FORM.
- MOST RECENT REPORT CARD
- STUDENT PHOTO
- NOTE: INCOMPLETE APPLICATION PACKAGES WILL NOT BE CONSIDERED. YOU WILL NOT BE NOTIFIED IF YOUR APPLICATION PACKAGE IS INCOMPLETE.

# HOW TO APPLY CONT'D

The Killarney Computer Science Mini School Assessment on Dec. 1, 2023, 1pm-2pm, in the Killarney cafeteria. **SIGN UP DEADLINE IS NOV. 29TH, 2023, MIDNIGHT. LATE SIGN UPS WILL NOT BE ALLOWED.** Students are expected to attend this assessment as part of the application process. Parents are asked to drop off and pick up students. To RSVP and confirm student attendance:

1. Go to <https://survey.vsb.bc.ca/>
2. Enter SURVEY ID: CSMINI2024 (All capitals)
3. Topics on the assessment: Order of Operations, Integers, Fraction/Percent/Decimal/Ratio conversions, Algebra, GCF/LCM, Logic/Reasoning. NO CALCULATORS ALLOWED FOR ASSESSMENT.





Killarney Computer Science Mini  
School - Questions After  
November 9, 2023 Session



QUESTIONS?