



PARKLAND SECONDARY SCHOOL

“An Innovative, Inspiring, Inclusive Learning Community”

Course: Computer Science (SL)

Group 4 - Computer Science Aims

The aims of the course are to enable students to:

1. Gain an appreciation of modern computing technology and its reach
 2. Look at ways to solve problems with computational logic
 3. Foster a sense of play and experimentation with new tools
 4. Examine the moral and ethical issues surrounding the use of technology
 5. Take a broader view of how computer technology is implemented globally
 6. Pursue collaborative opportunities
 7. Develop passion and personal interests around computer science
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Group 4 Computer Science Assessment objectives

Students will be expected to demonstrate the following.

1. Computer Organization - Architecture and foundations
 2. System fundamentals - System design, UI and support
 3. Networking - Networking fundamentals
 4. Computational Thinking - Logic and algorithmic based solutions, abstract thinking
 5. Web Science - Internet infrastructure and organization
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School District No. 63 (Saanich)



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Group 4 - Computer Science (SL) Topics

Syllabus component	Teaching hours
	SL/HL
Topic 1 : System Fundamentals	20
Topic 2 : Computer Organization	6
Topic 3 : Networks	9
Topic 4 : Computational Thinking, problem-solving and programming	45
Topic 5 :Web Science	30
Course exploration	40
Group 4 Project & Internal Assessment	
Total teaching hours	150

Evaluation

Assessment Component	Weighting
External Assessment (3 hours)	70%
Paper 1	45%
Paper 2	25%
In each paper students will be expected to know and understand; apply and use; and construct, analyse and evaluate ideas and concepts from the course.	
Internal Assessment	30%
Students develop a solution for a client, for a specific problem.	

Resources: Hardware and software are provided by the school for core course work, but personal resources may be required if students wish to pursue personal projects.