

# ALBERTA – Curriculum Connections

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## INFORMATION AND COMMUNICATION TECHNOLOGY

<https://education.alberta.ca/media/3114953/ictpos.pdf>

GRADES 5 - 8

C6 - Students will use technology to investigate and/or solve problems.

- 1.1 Identify a problem within a defined context Students will use technology to investigate and/or solve problems.
- 1.2 Use technology to organize and display data in a problem-solving context
- 1.3 Use technology to support and present conclusions

SCE1110: Structured Programming 1 (see also SCE1010: Computer Science 1)

1. Demonstrate introductory structured programming skills by writing sequential algorithms to solve problems involving input, processing and output

- 1.1 Describe the purpose and nature of an algorithm
- 1.2 Analyze a variety of simple algorithms and describe the task or tasks the algorithms are attempting to carry out
- 1.3 Analyze problems and determine if they can be solved using algorithms that employ an input/processing/output (IPO) approach
- 1.4 Decompose the problem into its input, processing and output components, and identify what data is already available to the program and what must be inputted
- 1.5 Sequence components appropriately so that processing occurs only when all required data is available and output occurs only after appropriate processing has occurred
- 1.6 Write the algorithm in an acceptable format; e.g., pseudocode, structured chart
- 1.7 Test the algorithm for failure as well as success with appropriate data
- 1.8 Revise the algorithm, as required