

## NEWFOUNDLAND & LABRADOR – Curriculum Connections

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### GRADE 7

#### Communications Technology Module

[https://www.gov.nl.ca/education/files/k12\\_curriculum\\_guides\\_teched\\_gr7\\_g7\\_ch3\\_unit1\\_june2002.pdf](https://www.gov.nl.ca/education/files/k12_curriculum_guides_teched_gr7_g7_ch3_unit1_june2002.pdf)

- 1.08 identify examples of the basic communications processes of encoding/ decoding, transmitting/ receiving, storing/retrieving [3.304 ] 1.09 differentiate between analog and digital communications principles and technologies [3.304] (p. 24)
- 1.14 use the language and terminology of communications processes and communications tools [1.305] (p. 28)
- 1.17 demonstrate understanding of the technological problem-solving model [1.301, 1.302, 3.303, 3.304] (p. 32)

### GRADE 8

#### Control Technology Module

[https://www.gov.nl.ca/education/files/k12\\_curriculum\\_guides\\_teched\\_gr8ctrltech\\_g8c\\_iii\\_unit1\\_aug2006.pdf](https://www.gov.nl.ca/education/files/k12_curriculum_guides_teched_gr8ctrltech_g8c_iii_unit1_aug2006.pdf)

#### Topic 1: Control Systems - An Introduction

- 1.02 define the terms 'system' and 'subsystem' and describe examples of each [2.304]
- 1.03 define control in terms of the processes: sensing, switching and regulating [2.304] (p. 26)

#### Topic 3: Electronic Control Systems

- 1.10 identify components of a simple electronic control system and describe each of their functions [2.304]
- 1.11 identify and describe the function of specific electronic control systems [2.304]

- 1.12 demonstrate an understanding of the application of electronic control systems in industry and society [2.304, 4.301, 4.302] (p. 34)

#### Topic 4: Robotics

- 1.13 define the terms 'robot' and 'robotics' [2.304, 4.301, 4.302]
- 1.14 identify components of a simple robotics system and describe each of their functions [2.304]
- 1.15 describe how robotics technology utilizes electronic and fluidic control systems [2.304]
- 1.16 demonstrate an understanding of the application of robotics in industry and society [2.304, 4.301, 4.302] (p. 36)

#### Topic 5: Programming and Interfacing

- 1.17 define programming in terms of communications within control technology systems [2.304]
- 1.18 describe the function of specific simple programs [2.304, 4.302]
- 1.20 describe how a tool or device operates as an interface between different components of a control technology system [2.304] (p. 38)