

# TECHNOLOGY AT CENTENNIAL

## Grade 9 Exploring Technologies



### ***“Your career starts here!!!”***

Exploring Technologies at Welland Centennial Secondary School is a start to an excellent future. This course enables students to understand the technological and computer concepts they will need in order to pursue technological studies. Technology courses provide students with an excellent foundation for continuing at University, College, Apprenticeship studies, or to directly enter the Workplace.

Projects include **designing, building, and testing**

Logic boards, Rockets, Bridges, Models (Balsa wood), Gliders (flight) and Cd Racks

## Grade 10, 11 & 12 Courses

### **Communications Technology (TGJ)**

***“Hollywood North” ???... Develop skills that you need!***

This course emphasizes communications technology with a wide range of activities including:

- advertising - video production - editing
- animation and photography
- all the video production activities throughout the school including the Year End Video.

#### **Resources:**

- a computer lab
- a complete video studio
- a variety of editing stations
- MAC computers and editing suites
- digital video cameras



## Computer Engineering Technology (TEJ)

### *How far can you go... with computer skills?*

This course examines computer hardware and the control of external components from an engineering perspective.

Students will learn how to:

- solve problems
- master the fundamentals of key computer components and peripherals
- build and Design electronic circuits

**Resources:**

- computers for disassembly
- digital electronic trainers
- testing equipment
- oscilloscopes



## Construction Engineering Technology (TCJ)

### *The housing Market is booming...Will you be ready?*

This course requires students to:

- develop skills and knowledge related to construction
- design, plan, build and evaluate projects
- create and interpret construction drawings
- construction for technical theatre to include electrical lighting and set construction

**Resources:**

- variety of construction materials, processes, tools and equipment.



## Hospitality & Tourism (TFJ)

### *Careers in the food industry... is huge!*

This course emphasizes the scope of the hospitality industry

Students will study:

- food origins,
  - food handling techniques
  - food preparation
  - health and safety standards and use of specialized tools and modern cooking equipment.
- They will also develop effective communications and management skills, and identify career opportunities within the hospitality and tourism industry.



## Technological Design (TDJ)

### *The future in Tech Design...is Exploding!*

This course requires students to design and develop innovative products

Students will:

- use CAD systems
- develop, design, analyse and build models.
- explore design related careers.

**Resources:**

- modern computers
- cad systems
- auto CAD
- plotters
- wind Tunnel
- small hand tools for modelling



<b>Grade</b>	<b>Courses Available</b>	<b>Course Codes</b>
Grade 9	<ul style="list-style-type: none"> <li>● Exploring Technologies</li> </ul>	<ul style="list-style-type: none"> <li>● TIJ 1O1</li> </ul>
Grade 10 (Open)	<ul style="list-style-type: none"> <li>● Communications</li> <li>● Construction</li> <li>● Technological Design</li> <li>● Hospitality and Tourism</li> <li>● Computer Technology</li> </ul>	<ul style="list-style-type: none"> <li>● TGJ 2O1</li> <li>● TCJ 2O1</li> <li>● TDJ 2O1</li> <li>● TFJ 2O1</li> <li>● TEJ 2O1</li> </ul>
Grade 11 (Workplace, College, College/University)	<ul style="list-style-type: none"> <li>● Communications</li> <li>● Construction</li> <li>● Technological Design</li> <li>● Hospitality and Tourism</li> <li>● Computer Engineering</li> <li>● Technical Theatre</li> <li>● Tourism</li> </ul>	<ul style="list-style-type: none"> <li>● TGJ 3M1</li> <li>● TCJ 3E/C1</li> <li>● TDJ 3M1</li> <li>● TFJ 3E/C1</li> <li>● TEJ 3M1</li> <li>● TCJ3CT</li> <li>● TFT 3C1</li> </ul>
Grade 12 ( Grade 11 Prerequisite Required)	<ul style="list-style-type: none"> <li>● Communications</li> <li>● Construction</li> <li>● Technological Design</li> <li>● Hospitality &amp; Tourism</li> <li>● Computer Engineering</li> <li>● Tourism</li> </ul>	<ul style="list-style-type: none"> <li>● TGJ 4M1</li> <li>● TCJ 4E/C1</li> <li>● TDJ 4E1</li> <li>● TFJ 4E/C1</li> <li>● TEJ 4M1</li> <li>● TFT 4C1</li> </ul>