

# CWSF 2007 - Truro, Nova Scotia



## Abigail McLagan

### Tic-Tac-Toe: A JavaScript Application

**Division:** Earth & Environmental Sciences / None

**Category:** Junior

**Region:** Rideau-St. Lawrence

**City:** Smiths Falls, ON

**School:** Duncan J. Schoular P.S.

**Abstract:** To research and understand the logic behind a simple game of Tic-Tac-Toe. To apply my knowledge of HTML and JavaScript programming to design a computerized Tic-Tac-Toe game. The game allows two players to compete against each other and determine who wins, or if there is a tie game. An artificial intelligence option allows a single person play against the computer.

#### Biography

I am eleven years old enrolled in a grade seven French immersion class in Duncan J. Schoular, Smiths Falls Ontario. I enjoy math, science, and computers. I have participated in numerous learning activities like Space Camp, SEEDS at Queen University and the Royal Astronomical Society of Canada monthly meetings (where I have also been a presenter). This year, I won several awards at our local science fair, participated as a finalist in the Canadian Legion Public Speaking Contest, and won an award from the Ontario Society of Engineers for building a model bridge. I also enjoy a lot of non-academic activities such as Girl Guides, soccer, summer camp, hiking, swimming, and canoeing. My hobbies include coin collecting, building airplane models, and working on my website. I enjoy spending time learning about astronomy by using my telescope to study the night sky. I also have two paid summer jobs - I pick blueberries on a local farm and work as a soccer referee. I am looking forward to going to university and becoming a computer programmer either here in Canada or in the United States since I am a dual citizen. I truly enjoy learning new things!

#### Awards

#### Value

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| The University of Western Ontario Scholarship<br>Bronze Medallist - \$1000 Entrance Scholarship<br>Sponsor: University of Western Ontario | \$1 000 |
| Bronze Medal - Computing & Information Technology - Junior<br>Sponsor: Intel of Canada, Ltd.  | \$300   |
| Total   | \$1 300 |