St. David Catholic Secondary School

Heart of the Community, Success for Each, A Place for All
Enrichment Opportunities

Semester One
Beaver Computing Challenge

- Grade 9 or 10
- Introduces computer science to students. It is designed to get students with little or no previous experience excited about computing. This is a problem solving contest with a focus on computational and logical thinking.
- 45 minute period during November
- The contest is written online in schools and supervised by teachers.
- For more info, email Mr. Temple
Enrichment Opportunities

Semester 2
Chem 13 News Exam

• Grade 12
• Chemistry
• 40 multiple-choice questions, some easy, some tough, under the general headings: organic, equilibria, kinetics, oxidation-reduction, bonding, structure, reactions, solutions, gases, & general knowledge of current affairs.
• Written at school in May 2016
• For more info, email Ms. Johnson
• https://uwaterloo.ca/chemistry/about-chemistry/community-outreach/chem-13-news-exam
Avogadro Chemistry Contest

• Grade 11
• Chemistry
• 40 multiple-choice questions, some easy, some tough, under the general headings: structure of matter, bonding, reactions, solutions, & gases, & general knowledge of current affairs.
• Written in school in May 2016
  • For more info, email Ms. Johnson
  • https://uwaterloo.ca/chemistry/about-chemistry/community-outreach/avogadro-exam
Sir Isaac Newton Physics Contest

• Grade 11 & 12
• Physics
• The exam, although aimed at competent students, is meant to be refreshing and fun. Political and other topical humour have marked SIN exams for years.
• Written at school in May 2016
• $5,000 entrance scholarship, other prizes
• For more info, email Ms. Ruck
• https://uwaterloo.ca/sir-isaac-newton-exam/student-information
Waterloo Unlimited

- Grade 10, 11, 12
- All subjects
- Brings together curious, motivated, well-rounded teens from across the country. Rather than focusing on enrichment in a particular subject, each Waterloo Unlimited experience revolves around a different transdisciplinary theme—such as "change" or "design".
- Gr. 10: **March 2016**; Gr. 11: **May 2016**
- [https://uwaterloo.ca/unlimited/](https://uwaterloo.ca/unlimited/)
- For more info, email Ms. Hannoush
Canadian Computing Competition

- Grades 11 & 12 — intermediate to advanced programming skills
- Computer Engineering, Computer Science
- Test your ability in designing, understanding and implementing algorithms
- February 2016
- For more info, email Mr. Gmach
OAPT Physics Contest

• Grade 11
• Physics
• The contest has 30 multiple choice questions, usually with one or two of those questions based on the previous year’s Nobel Prize in physics or current events in physics.
• Written in school in May 2016
  • For more info, email Ms. Ruck
• http://www.oapt.ca/grade_11_contest/index.html
U of T National Biology Competition

• Grade 12
• Biology
• 50 multiple-choice questions
• Written in school in April 2016
• Sign up with Mr. Schumacher or Mr. Bachher
• http://www.biocomp.utoronto.ca/
Charlie Awards Film Festival – Video Competition

- Grades 9 – 12
- Communications Technology
- Create a short film up to 10 minutes in length – any genre – student made, with no teacher involvement.
- Intent to submit must be received by April 2016
  - For more info, email Mrs. Nijhuis
- [http://www.charlieawardsfilmfestival.ca/](http://www.charlieawardsfilmfestival.ca/)
- All films are viewed during the Festival on at the original Princess Cinema on Princess Street with winners being announced at 8:30PM
Skills Canada Regional Competitions

• Grades 9 through 12
• One day skills competition focusing on **Computers and Design**
  • Architectural Technology and Design, Electronics, IT Network Systems Admin., IT Office Software, Mechanical Computer Aided Drafting, Virtual Robotics
• **March 2016**
  • Register Online beginning December
  • Conestoga College
    • For more info, email Mrs. Nijhuis
  • [http://skills.wcdsb.ca/sec/index.html](http://skills.wcdsb.ca/sec/index.html)
FIRST Robotics – Team Dave

- Grades 7-12
- STEM, business, arts
- International competition to fund/design/build/promote a robot
- Learn business & technology
- One night a week year-round at school. Daily design/build January/February. Overnight tournaments in Ontario & USA March/April.
  - For more info, email Mr. Matan
  - www.TeamDave.ca
It’s Your Job – Video Contest

- Grades 9 – 12
- Communications Technology, Co-op
- Use your creativity to develop an original video that can be used in social media to illustrate the importance of working safely on the job.
- Contest closes **March 2016**
  - For more info, email Mrs. Nijhuis

**PRIZES**
- 1st Place: **$1000** for the entrant(s)
- 2nd Place: **$750** for the entrant(s)
- 3rd Place: **$500** for the entrant(s)
Skills Canada Regional Competitions

- Grades 9 through 12
- One day skills competition focusing on **Hospitality and Hairstyling**
- Baking, Culinary Arts, Restaurant Service, Hairstyling
- **March 2016**
- Register Online beginning December
- Conestoga College
  - For more info, email **Mrs. Nijhuis**
  - [http://skills.wcdsb.ca/sec/index.html](http://skills.wcdsb.ca/sec/index.html)
Skills Canada Regional Competitions

• Grades 9 through 12
• One day skills competition focusing on Construction and Design
• Architectural Technology and Design, Cabinetmaking, Carpentry (Individual and Team), Home and Team Build, Landscape Gardening
• March 2016
• Register Online beginning December
• Conestoga College
  • For more info, email Mrs. Nijhuis
• http://skills.wcdsb.ca/sec/index.html
Skills Canada Regional Competitions

- Grades 9 through 12
- One day skills competition focusing on **Transportation Technologies**
- Auto Service Technology, Small Powered Equipment, Welding
- **March 2016**
- Register Online beginning December
- Conestoga College
  - For more info, email Mrs. Nijhuis
- [http://skills.wcdsb.ca/sec/index.html](http://skills.wcdsb.ca/sec/index.html)
So you think you know Mining – Video Competition

- Grades 9 – 12
- Communications Technology
- Create a compelling 2-3 minute video clip that profiles the benefits of mining to society. You can work alone or get a group of friends together and work as a team
- Entries close March 2016

PRIZES
- Top videos earn from $2500 to $5000
- For more info, email Mrs. Nijhuis
Brain Bee

- Grades 9 through 12
- Science
- Competitors answer questions about the brain and neuroscience.
- **March 2016**
  - Sun Life Financial Auditorium, Room 1621, in the Lyle S. Hallman Institute Building (LHI) at the University of Waterloo
  - For more info, email [Mr. Schumacher](mailto:Mr.Schumacher@uwaterloo.ca)
  - [https://uwaterloo.ca/kinesiology/events/university-waterloo-brain-bee](https://uwaterloo.ca/kinesiology/events/university-waterloo-brain-bee)

**PRIZES:**
- 1st place $400; 2nd place $100.00
Inspiring Future Women in Science Conference

• Female students in Grade 9 - 12
• Are you interested in turning your love of science into a career? Perimeter Institute is inviting female high school students to participate in an inspirational half day conference
• March 2016
• Download the registration form on the website
• http://www.perimeterinstitute.ca
• For more info, email Mr. Schumacher
Skills Canada Regional Competitions

• Grades 9 through 12
• One day skills competition focusing on **Communications Technology**
• 2D Animation, 3D Animation, Graphic Design Presentation, Graphic Design Studio Production, Photography, TV/Video Production
• **March 2016**
• Register Online beginning December
• Conestoga College
• For more info, email [Mrs. Nijhuis](mailto:Mrs.Nijhuis)
• [http://skills.wcdsb.ca/sec/index.html](http://skills.wcdsb.ca/sec/index.html)
Young Entrepreneurs: Make your Pitch Contest

- Grades 9 – 12
- Business
- Pitch your business ideas in a two-minute video that will be voted on by the public and expert judges
- Entries are due **March 2016**
  - For more info, email **Mrs. Nijhuis**
  - [http://www.makeyourpitch.ca/](http://www.makeyourpitch.ca/)
- Winners receive reserved entry into Summer Company to develop their business idea (including an award of up to $3,000)
Skills Canada Regional Competitions

- Grades 9 through 12
- One day skills competition focusing on **Business**
- Job Interview, Prepared Speech, Graphic Design Presentation
- **March 2016**
- Register Online beginning December
- Conestoga College
  - For more info, email Mrs. Nijhuis
  - [http://skills.wcdsb.ca/sec/index.html](http://skills.wcdsb.ca/sec/index.html)
Michael Smith Science Challenge

- Grades 9 and 10
- Science
- National Competition emphasizing logical thinking and covers material in the science curriculum common to all provinces.
- Written in February with your teacher
  - For more info, email Mr. Schumacher
- www.smithchallenge.ubc.ca

PRIZES:
- Nationally: 1st - $500, 2nd - $250, 3rd - $100
- Provincially: $100 for top student without a national prize, $50 for each student in a tie
Waterloo Unlimited

• Grade 10, 11, 12
• All subjects
• Brings together curious, motivated, well-rounded teens from across the country. Rather than focusing on enrichment in a particular subject, each Waterloo Unlimited experience revolves around a different transdisciplinary theme—such as "change" or "design".
• $450. Apply December 2015. Bursary available.
• Gr. 10: March 2016; Gr, 11: May 2016
• [https://uwaterloo.ca/unlimited/](https://uwaterloo.ca/unlimited/)
• for more info, email Ms. Hannoush
Computer Science Girls Rock

- Female grade 9 and 10 students
- Computer Science
- Computer science is about much more than using and programming computers. Through lectures, labs and hands-on activities, the workshop explores the foundations and applications of computer science that have a profound effect on the world today.
- Two one-week session(s) in May
- $150 registration includes accommodation & meals
- For more info, email Mr. Gmach
- http://cemc.uwaterloo.ca/events/csgirls.html
Enrichment Opportunities

Summer
Deep River Science Academy

- Grades 9 - 12
- Summer Science Immersion
- This program takes high school students out of the classroom and places them in real-life, high-tech laboratories immersing the student in a science career.
- 6 weeks in the summer
- Earn 2 Co-op credits
- For more info, email Mr. Schumacher
- www.drsa.ca
Laurier Enriched Academic Program

- Summer camp for gifted highly able children in grades 1-9
- Saturday morning programs and summer camps.
  - for more info, email Ms. Hannoush
SHAD Valley

- Grades 10 - 12
- 4 week enrichment summer camp
- program focuses on the Sciences, Technology and Entrepreneurship
- students spend a month living in residence at a host University
- application deadline is early December
- www.shad.ca
- For more info, email Mr. Schumacher
Science and Engineering Summer Research

- Grades 11 and 12
- Are you Canada’s next top researcher?
- SPARK is an award of up to $4000 allowing aspiring young scientists and engineers to participate in ground-breaking research at York University in July/August
- Visit the website to read about the full application process
- For more info, email Mr. Schumacher
- http://spark.info.yorku.ca/