



Activities for Grades 4 – 12

INVITATIONS TO MATHEMATICS (Print Materials for Grades 4 – 6)

- Grade-specific booklets on Geometry, Data Management, Probability, Patterning and Algebra and Measurement
- Each has more than 50 pages of activities, blackline masters, solutions and teacher notes
- Lots of problem solving and group work
- Inexpensive (sold at cost of production - \$7.00 each)
- Content details under [Publications](#) at www.cemc.uwaterloo.ca
- Contact: Bev Marshman at bjmarshm@math.uwaterloo.ca

MATHFROG (Fun Resources and Online Games for Grades 4 – 6)

- Free website of mathematics lessons at www.mathfrog.ca available in English and French
- Mathematics games and technological tools for students, teachers and parents
- Follow-up paper-and-pencil exercises satisfying the Ontario curriculum
- Review, reinforce fundamental ideas or brighten a 'dull' day
- Contact: Jim Schurter at schurter@math.uwaterloo.ca

PROBLEMS '4' THE WEB for Grades 4 – 6

- Promote an understanding of mathematical concepts and their application
- Provide problems that are immediately useful in the classroom
- Written comments and solutions for the teacher
- Contact: Bev Marshman at bjmarshm@math.uwaterloo.ca

EMMY NOETHER CIRCLES (Online Problem Sets for Grades 5 – 6)

- Problem solving in a collaborative setting (not a contest)
- Three free online Circles per year: late September, mid December and mid March
- Each has six problems, hints, suggestions and solutions
- Use them one at a time or as appropriate for individuals or groups of students
- Contact: Bev Marshman at bjmarshm@math.uwaterloo.ca

MATHEMATICAL GROWTH SERIES (For Teachers of Grades 5 – 6 or 7 – 8)

- Confidence-building professional development courses on problem solving
- Offered by CEMC personnel at your Board of Education facilities
- Contact: Enzo Carli at ecarli@uwaterloo.ca

WIREDMATH (For Students and Teachers of Grades 7 – 9)

- Free website at www.wiredmath.ca and aimed to provide extra questions for all students
- Exercises also include on-line games, drills, and problem solving
- Challenges and extension exercises provide enrichment intended for students in the categories of Levels 3 and 4 of the Achievement Charts for the Ontario curriculum
- Answers provided for all exercises and full solutions for challenge and extension sections
- Contact: Dean Murray at d3murray@math.uwaterloo.ca

GAUSS MATHEMATICS CONTEST (For Grades 7 – 8 Students)

- One hour, 25 question multiple choice contest and enjoyable enrichment experience
- Registration information, past contests and solutions available online at <http://www.cemc.uwaterloo.ca/english/contests/gauss.shtml>
- Contact: Ian VanderBurgh at iwvande@math.uwaterloo.ca

MATHEMATICS AND COMPUTER SCIENCE CONTESTS (For Grades 9 – 12 Students)

- For information visit <http://cemc.uwaterloo.ca/english/contests/index.shtml>

MATH RESOURCE LIBRARY (For Grades 7 – 12 Teachers)

- A library of free on-line resources for teachers (coming fall 2005)
- Contact: Judith Koeller at jakoelle@math.uwaterloo.ca

CAREER PROFILES (For Grades 7 – 12 Teachers)

- Check out career profiles of University of Waterloo graduates in the work force
- For more information visit <http://www.math.uwaterloo.ca/navigation/Careers/careers.shtml>