



2011 Entry Package

To: 2011 Chatham Kent Regional Science Fair Entrants

The attached Entry Package contains:

- *The Official Project Entry Form 2011 – return 1 per project*
- *A Participant/ Parent Consent Form 2011 – return 1 per project*
- *An Event Schedule for 2011 – keep for information*
- *A Judge's Marking Sheet – keep for information*

Your Entry Package will consist of:

- *A fully completed, legible, and signed Entry Form*
- *A signed Participant / Parent Consent Form;*
- *Entry fee of \$7.00 per student.*

Please send all 3 at the same time. Schools sending multiple entries may submit one cheque for all entries. DO NOT send cash.

Deadline is **March 24th, 2011**

NO Entry Packages received after MARCH 24th will be accepted!

Forward all entry packages to:

Chèr VanHelden

Chatham Regional Education Centre
476 McNaughton Ave East
P.O. Box 1000
Chatham, Ontario N7M 5L7

TO: Elementary and Secondary Principals
Municipality of Chatham Kent Schools
FROM: Chatham Kent Regional Science Fair Committee
Date: February 2011

Please find enclosed the Entry Package 2011 for the 46th Annual Chatham Kent Regional Science Fair and a notice for each Grade 5 to 8 or Science Teacher in your school. Please place notices in their mail boxes.

Entry Package 2011

- 1 copy for the office for photocopying as required by entries. One registration form and one participant / parent consent form is required for each project.
- 1 copy for the principal.

If you would like more copies, please email Chér VanHelden at vanhelch@lkdsb.net.

Things To Remember For 2011 Registration Process, Please Note

1. A legible entry form greatly assists in ensuring name and project title accuracy. If completing entry form by hand, please print legibly. Registration forms can also be downloaded from the website.
2. **The participant / parent consent form needs to be signed by both participants and parents.** It includes important acknowledgements to ensure that the projects meet all safety and ethical requirements as governed by Youth Science Canada. Parents need to ensure that all portions of this form have been completed and also provide consent for their child's participation.
3. Entry fee is **\$7.00 per student**
4. A **Judge's Marking Sheet** is included to give teachers and participants advance information which will assist in preparing for the fair.
5. All participants are asked to complete the **Self-Nomination** section for **Community Awards**. A description of the eligibility criteria for available awards can be found on the Chatham Kent Regional Science Fair Website www.cksciencefair.com. A project is limited to a maximum of 3 Community Award Nominations. Some projects, because of the topic, may not have an award which matches with the criteria. **Awards listed are subject to sponsorship renewal**, if additional awards become available, participants will be nominated by the Registrar.

Our website at www.cksciencefair.com has a comprehensive description of the Chatham Kent Regional Science Fair. It also includes links to 3 Curriculum Support documents developed by Youth Science Ontario which tie the Project-Based Learning concept to the Ontario Curriculum.

Your assistance in distributing this information to science teachers and students is greatly appreciated. The Chatham Kent Regional Science Fair Committee will gladly respond to any questions you or your staff members may have. These can be directed to the appropriate person using the e-mail links on the Chatham Kent Regional Science Fair website. Registration questions can also be made by phone to Juliana Haskell at 519-674-3475.

Thank You for your help.
Chér Van Helden, Secretary



Official Project Entry Form 2011

School Name: _____ School Phone Number: _____

Name: _____ Grade: _____ Email: _____ Phone: _____

Address: _____ Postal Code: _____

Name: _____ Grade: _____ Email: _____ Phone: _____

Address: _____ Postal Code: _____

Project Title: _____

Classification/Category: Note – Check which classification and category applies to your project. For descriptions of each classification, see next page. Once selected, the classification cannot be changed by the entrant — it may only be changed by the committee if the selected classification is deemed inappropriate.

Classification: Life Science : Physical Science/Mathematics: Engineering/Computer:

Category: Grade 5 Grade 6 Grade 7 Grade 8 Secondary

Is electricity required for your project? Yes: No:

Purpose – Hypothesis

Outline – Procedure

Results – Conclusions

Community Award Self-Nomination – Please ensure that you have read the descriptions and eligibility criteria carefully from the CK Regional Fair website.

Please consider my/our project for the following Community Awards – MAXIMUM of 3 nominations

| Award Names | | Grade Level |
|------------------------|--|---------------------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| Office Use Only | | <i>Project # Assigned</i> _____ |

- Please **TYPE or PRINT** information on the OFFICIAL PROJECT Entry Form and return it with a non-refundable entry fee of \$7 per student (\$14 per team). **Please make cheques payable to Chatham Kent Regional Science Fair.** (DO NOT send cash)
- Please remember to complete and send the **Participant / Parent Consent** form. It needs to be signed by both participants and parents.
- The Chatham Kent Regional Science Fair Committee must receive all entries by **March 24th, 2011**. An entry received **after the deadline** will not be accepted.
- Address entries to the following: **Chèr Van Helden,**
Chatham Regional Education Centre,
476 McNaughton Avenue East,
P.O. Box 1000 Chatham, Ontario, N7M 5L7

Description of Project Classifications

| Classification | Description of project |
|-------------------------------|---|
| Life Science | Life science projects examine some aspect of the life or life cycle of a living thing including human and non-human organisms. For example, project areas may include studies of plants, health, microorganisms, psychology and behaviours. |
| Physical Science/ Math | Physical science projects study abiotic (non-living) factors to understand the relationship between identified factors. These projects involve cause and effect relationships. For example, this may include projects in physics, chemistry and comparison testing of products. Mathematical projects demonstrate applications of math (like finding a mathematical model) or solve a theoretical problem. Math projects may also emphasize statistical analysis of existing data. |
| Engineering / Computer | An engineering project applies physical knowledge to solve a problem or achieve a purpose. Engineering projects focus on a new process or a new product. A computer project concentrates on the development of hardware, software or applications as well as the storage, transmission and manipulation of information. |

over....

PARTICIPANT/PARENT CONSENT FORM

PARTICIPANT: _____
Print name

PARTICIPANT: _____
Print name

- Participants please carefully READ and SIGN the following acknowledgements below.
- Parents please sign the consent on the back of this page.
- Projects missing signatures may be denied entry in the fair or may ineligible for awards.

1. Student acknowledgement of sponsors.

I/we authorize the Chatham-Kent Regional Science Fair or sponsors to reproduce any detail of this project, with suitable acknowledgement given to the researcher(s).

Signature of Student

Date

Signature of Student

Date

2. Student acknowledgement of safety rules and regulations.

I/we have READ and have FOLLOWED the safety rules and regulations found in the Chatham-Kent Regional Science Fair Information Booklet section on Safety Regulation (found at www.cksciencefair.com)

Signature of Student

Date

Signature of Student

Date

3. Student acknowledgement of the use of human participants.

Please refer to the Chatham-Kent Regional Science Fair Information Booklet section on Ethical Requirements (found at www.cksciencefair.com) and link to the Youth Science Canada site "Use of Human Subjects" for more details about this policy.

Check which boxes apply:

I/we acknowledge that I/we DID NOT USE human participants as part of our research/experiment/study.

Or

I/we acknowledge that I/we DID USE human participants as part of our research/experiment/study.

If so... I/we have signed letters of consent for each participant.

I/we acknowledge that the project does not involve the ingestion or consumption of any item

Signature of Student

Date

Signature of Student

Date

4. Student acknowledgement of the use of other animals.

Please refer to the Chatham-Kent Regional Science Fair Information Booklet section on Ethical Requirements (found at www.cksciencefair.com) and link to the Youth Science Canada site "Use of Animals" for more details about this policy.

Check which boxes apply:

I/we acknowledge that I/we DID NOT USE animals as part of our research/experiment/study.

Or

I/we acknowledge that I/we DID USE animals as part of our research/experiment/study according the Use of Animals policy and with the permission of an adult supervisor.

Signature of Student

Date

Signature of Student

Date

over....

5. Parental Consent. Please read and sign each of the following.

(A) I have ensured that my child has carefully read and signed each of the prior acknowledgements:

- student acknowledgement of sponsors
- student acknowledgement safety rules and regulations
- student acknowledgement of the use of human participants
- student acknowledgement of the use of other animals

Signature of Parent

Date

Signature of Parent

Date

(B) I consent to my child's participation in the Chatham-Kent Regional Science Fair and give consent for the Chatham-Kent Regional Fair to publish my child's name and likeness in the Fair's program, Website and News Releases.

Signature of Parent

Date

Signature of Parent

Date

Participant Survey

Where did you learn about the Chatham Kent Regional Science Fair?

- Participated in a previous fair
- Road sign
- Radio promotion
- School promotion
- Other (please specify) _____

IMPORTANT!

All portions of this consent form are to be completed and included with the official project entry sheet when registering.

NOTE: All events will be held at:

**John McGregor Secondary School
300 Cecile Avenue, Chatham
Telephone 519-354-1740**

Friday, April 1st, 2011

| | |
|-----------------------|---|
| 4:15 p.m. – 6:15 p.m. | Registration, Project set-up & Safety Checks |
| 6:15 p.m. – 6:45 p.m. | Judges Walk Through |
| 6:45 p.m. – 9:15 p.m. | Project Judging Participants must remain with their projects until released by Divisional Head Judge and the Community Award Selection Coordinator. Projects will be judged for: Divisional Awards – 2 judging sessions based on Judges' marking sheet. Community Awards – 2 judging sessions based on self-nomination and award criteria. |

Saturday, April 2nd, 2011

| | |
|-------------------------|--|
| 8:00 a.m. - 9:00 a.m. | Judging Review (no participants) |
| 9:00 a.m. - 10:30 a.m. | Public Viewing and Peer Award nomination |
| 10:30 a.m. - 11:45 p.m. | Science Special Event |
| 11:45 p.m. - 12:15 p.m. | Lunch |
| 12:15 p.m. - 1:30 p.m. | Awards Ceremony |
| 1:30 p.m. - ? | Photo Session with the winners and their projects Project Take Down Meeting of Canada Wide Science Fair Team |

JUDGE'S MARKING SHEET

Project Number: _____ Project Title: _____

Student Name(s): _____

| PART A: VISUAL DISPLAY 10% | | Max | Mark |
|---|--|--|--|
| Layout: | <ul style="list-style-type: none"> ➤ logical, organized and makes efficient use of space ➤ attractive and well-constructed | 4 | |
| Content: | <ul style="list-style-type: none"> ➤ headings stand out ➤ any charts, graphs and diagrams are clearly labeled and drawn ➤ displayed written material is free of grammatical / spelling errors | 6 | |
| Total Mark for Visual Display | | 10 | |
| PART B: ORAL PRESENTATION 10% | | Max | Mark |
| Presentation: | <ul style="list-style-type: none"> ➤ clear and enthusiastic ➤ logical, well-organized flow ➤ preparation and rehearsal evident | 6 | |
| Responses to questions: | <ul style="list-style-type: none"> ➤ clear and logical ➤ demonstrate understanding | 4 | |
| Total Mark for Oral Presentation | | 10 | |
| PART C: PROJECT WRITTEN MATERIALS 10% | | Max | Mark |
| <ul style="list-style-type: none"> ➤ Abstract is a clear and concise statement of the problem/purpose, procedures used, data and conclusions. ➤ Project Data Book is an accurate and detailed record demonstrating consistency and Thoroughness | | 4 | |
| <p>Project Report is a five page summary consisting of the following (completed neatly and accurately):</p> <ul style="list-style-type: none"> ➤ Proper report format: (title page, table of contents, introduction, purpose, hypothesis, materials, procedure, observations/results, discussion, conclusion) ➤ Acknowledgments of support/assistance ➤ References Listed | | 6 | |
| Total Mark for Written Materials | | 10 | |
| PART D: ORIGINAL CREATIVITY 25% | | | |
| LEVEL 1 (low) Mark Range 5 to 10 | LEVEL 2 (fair) Mark Range 10 to 15 | LEVEL 3 (good) Mark Range 15 to 20 | LEVEL 4 (excellent) Mark Range 20 to 25 |
| <ul style="list-style-type: none"> ➤ Little imagination shown. Project design is simple with minimal student input. A textbook or magazine type project. | <ul style="list-style-type: none"> ➤ Some creativity shown in a project of fair to good design. Standard approach using common resources or equipment. Topic is a current or common one. | <ul style="list-style-type: none"> ➤ Imaginative project, good use of available resources. Well thought out, above ordinary approach. Creativity shown in design and/or use of materials. | <ul style="list-style-type: none"> ➤ A highly original project or a novel approach. Shows resourcefulness. Creativity in design, use of equipment and/or construction of project. |
| Mark | | | |

| PART E: SCIENTIFIC THOUGHT 45% | | | | | |
|--|------------|--|------------|--|-------------------|
| Experiment | | Type of Project Innovation | | Study | |
| An investigation undertaken to test a scientific hypothesis using experiments. The variables, if identified are controlled to some extent. | | The development and evaluation of innovative devices, models or techniques or approaches in technology engineering or computers (hardware or software). | | A collection and analysis of data to reveal evidence of a fact or a situation of scientific interest. It could include a study of cause and effect or theoretical investigations of scientific data. | |
| Assessment Evidence: | | LEVEL 1 (low) | | Mark Range 5 to 15 | |
| <ul style="list-style-type: none"> ➤ Duplication of a known experiment to confirm hypothesis. ➤ Hypothesis is totally predictable. | | <ul style="list-style-type: none"> ➤ Model/device duplicates existing technology. | | <ul style="list-style-type: none"> ➤ Study of existing printed material related to the basic issue. | |
| Assessment Evidence: | | LEVEL 2 (fair) | | Mark Range 15 to 25 | |
| <ul style="list-style-type: none"> ➤ Extension of a known experiment through modification of procedures, data gathering, and application. | | <ul style="list-style-type: none"> ➤ Makes improvement to, or demonstrates new applications for existing technological systems or equipment. ➤ Justifies improvements or new applications. | | <ul style="list-style-type: none"> ➤ Study of material collected through a compilation of existing data and through personal observations. ➤ Display attempts to address a specific issue. | |
| Assessment Evidence: | | LEVEL 3 (good) | | Mark Range 25 to 35 | |
| <ul style="list-style-type: none"> ➤ Devise and carry out an original experiment with controls. ➤ Identify and control some significant variables. ➤ Carry out analysis using graphs/simple statistics. | | <ul style="list-style-type: none"> ➤ Design and build innovative technology or provide adaptations to existing technology ➤ Identifies human benefit and/or economic applications. | | <ul style="list-style-type: none"> ➤ Study based on observations and literary research illustrating various options for dealing with a relevant issue. ➤ Includes appropriate analysis (arithmetic, statistical or graphical) of some significant variable(s). | |
| Assessment Evidence: | | LEVEL 4 (excellent) | | Mark Range 35 to 45 | |
| <ul style="list-style-type: none"> ➤ Devise and carry out original experimental research. ➤ Attempts to control or investigate most significant variables. ➤ Includes statistical analysis of data. | | <ul style="list-style-type: none"> ➤ Integrate several technologies, inventions or designs and construct an innovative technological system. ➤ Identifies important human benefit and/or commercial benefit. | | <ul style="list-style-type: none"> ➤ Study correlating information from a variety of significant sources which may illustrate cause and effect or original solutions to current problems through synthesis. ➤ Identifies significant variable(s) with in-depth statistical analysis of data. | |
| TOTAL MARKS | | | | | FINAL MARK |
| PART A /10 | PART B /10 | PART C /10 | PART D /25 | PART E /45 | /100 |
| | | | | | |

Judge's Name (Please Print)

Judge's Signature