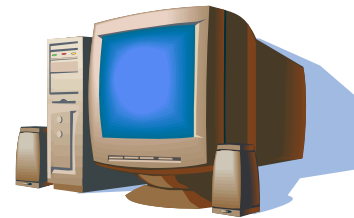


EARTH DAY[®]

Ottawa



PowerPoint Presentation

Earth Day Ottawa proudly presents

Solar Sprint

PowerPoint Presentation

Competition

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Thank you to Sponsors and Volunteers

Thank you to all of our sponsors and volunteers. Without them, this program would not be possible.

Use of this Manual

This Manual should be used in conjunction with the main Solar Sprint Manual and the Earth Day Ottawa web site.

www.earthdayottawa.ca

What Is a Solar Sprint Competition?

The Solar Sprint competition is:

1. A race among students using "home-made" solar powered model-size cars.
2. A competition among students to produce other components (such as a website and/or a PowerPoint Presentation and/or a digital video) as determined by the organizers.

These two main components make up the Solar Sprint competition. The actual extra components required for the competition and details of the competition can be found in the main Solar Sprint manual and in the registration information.

Why a Solar Sprint Competition?

The objectives of the Solar Sprint competition are:

- i) to design and build a vehicle that will complete a race in the shortest possible time using the available power.
- ii) to engage students in researching science principles relating to solar (renewable) energy so that they might gain an understanding and appreciation of renewable energy sources.
- iii) to help students advance their computer skills by providing a useful avenue to generate a website, PowerPoint Presentation, digital video and/or other computer related activity that is educational in the doing and educational in the content.
- iv) to provide students with an outlet to show and enhance their artistic abilities by providing an interesting project which requires graphics for a website or digital video or presentation and to provide a direct link to science and technology oriented tasks in the hope that they might gain an appreciation for science and technology.
- v) to share with the wider community the potential for science and technology to open up new possibilities for the future for the benefit of the environment.

In short, the answer is . . . for

EDUCATION and the ENVIRONMENT

Who Can Compete?

Only students in **grades 6, 7 and 8** are allowed to compete and they compete with "home-made" solar powered model size cars and with other "vehicles" such as Websites, PowerPoint Presentations and video productions.

Home school students in the same age group and similar education level are also allowed to compete.

Solar Sprint School PowerPoint Presentation Guidelines

PowerPoint Presentations are to be submitted at least nine (9) days before race day.

The PowerPoint presentations must be submitted by e-mail to the address given on the Earth Day Ottawa website at www.earthdayottawa.ca/events/solar_sprint/index.htm by 5:00 pm (17:00 Hrs) on or before the Thursday that is **nine (9) days before race day.** You will be informed of the exact date in a separate notice. Late submissions will be viewed at the judges' discretion.

Description:

The purposes of the Solar Sprint PowerPoint Presentation competition are to share the knowledge gained about building solar powered cars with others, to help students learn about alternate energies (including solar) and the environment, to engage students in using the Internet and to help students learn more about computers and their applications.

The PowerPoint Presentation competition can also be used to provide students with an outlet to express their **artistic and creative** abilities in producing various graphics and animations if desired for the presentation pages. This is the melding of art and science.

The PowerPoint Presentation part of the competition provides an excellent opportunity for students not wanting to design and build a car and not wanting to be on a race team but want to become involved in the event.

There will be prizes given for the top three PowerPoint Presentations as determined by the judges.

PowerPoint Presentation Content Guidelines:

The items below are some of the ideas that can be used as a guideline for the content or messages to be displayed in the PowerPoint Presentations. Other related information is also acceptable.

Design, Build and Test Process

- Knowledge gained about building solar powered cars
- Car Facts: Photos and videos of the cars produced, car dimensions, weights
- School Team members (using fictional names)
- Design process
- Document (text and photos) the progress of the teams at various stages of the design, building and testing of the cars
- Lessons learned
- Suggestions of where to find more information such as links to relevant websites including the Earth Day website: <http://www.earthdayottawa.org/solarsprint.htm> should be provided in the presentation slides.

Solar Energy, Environmental Information

- What have you learned about solar energy?

- In which situations is solar power likely to be most practical?
- Advantages and disadvantages of solar power
- Applications or uses of solar powered systems and its place in society
- How solar energy might play a role in reducing our use of non-renewable resources
- How solar energy might play a role in reducing pollution
- Other alternative energy sources (non-renewable and renewable comparisons)
- Environmental impact of renewable and non-renewable energy sources
- Differences between solar electric and solar thermal systems
- Energy Conservation; things we can do to save energy

Generally, embedded videos in PowerPoint Presentations are viewed as part of the PowerPoint Presentation. Any video that is part of a PowerPoint presentation may also be submitted as a video submission and judged with the other videos but a copy of it must be submitted in the video submission area.

The Evaluation Guidelines and Score Sheets for the PowerPoint Presentations are on the **next two pages**.

Solar Sprint School PowerPoint Presentation Evaluation Guidelines and Score Sheet

School Name: _____

These guidelines are to help the judges rate the PowerPoint Presentation in the competition.

Students can use these guidelines to help them determine what content should be in their PowerPoint Presentation and how they would like their presentations to appear. Ideas for PowerPoint Presentation content are also presented on the previous 2 pages.

PowerPoint Presentation Content Evaluation (60 points maximum)

1. **Cover (First) Page** (4 points maximum):
 - School Name and Date PowerPoint Presentation completed
 - Student Name(s) (Fictional) in the PowerPoint Presentation Team
2. **School Team** (2 points maximum):
 - School Team Members: Fictional team member names and roles they played.
 - Photos with captions of their fictional names would .
3. **Design Process** (12 points maximum):
 - Describe the design and build team's design process and document the progress, including ideas that were considered and rejected and why.
4. **Photos** (2 points maximum):
 - Photos of the car(s) at various stages of development.
5. **Car Design** (4 points maximum):
 - Car Facts: Photo(s) of car(s), dimensions of car(s), weight(s) of car(s). What can engineers do to make vehicles more efficient so they require less energy?
6. **Lessons Learned** (4 points maximum):
 - What important lessons did you learn during this activity? These could be things about the car, about working on a team, or something else you found important and would like to share.
7. **Further Information** (6 points maximum):
 - Presentations should include references to other information and links to relevant websites regarding solar energy and environmental information including:
<http://www.earthdayottawa.ca/> and
http://www.earthdayottawa.ca/events_solar_sprint.htm
8. **Language(s)** (2 points maximum):
 - Is the presentation fully or partially bilingual?

9. **Solar Energy, Environmental Information** (16 points maximum):
 - Provide information about solar (renewable) energy and the environment.
10. **Accuracy** (8 points maximum):
 - Is the information presented accurate?

PowerPoint Presentation Content Points Summary _____

60 points maximum

PowerPoint Presentation Design Evaluation (60 points maximum)

1. **Originality** (8 points maximum):
 - Unique and exciting composition that catches the eye.
2. **Organization and Presentation** (18 points maximum):
 - Well thought out and planned to convey a message,
 - Information is to be neat and easy to read, appropriate font types and sizes, underlines, bold, italics, white space. Not too much and not too little.
 - Photos or graphics should be labelled.
 - Is there too much information on the slides? Are they too “busy”?
3. **Animation, Videos and Sounds** (4 points maximum):
 - Any animation to explain concepts, videos and sounds used in the presentation should be appropriate and should not be distracting.
4. **Grammar and Spelling** (12 points maximum):
 - Should be perfect; vocabulary is to be age appropriate.
5. **Presentation Features** (18 points maximum):
 - Transitions from one-slide to the next.
 - Automated slide show timing (if used), too fast or too slow.
 - Any narration for the slide show? Is it clear and understandable?
 - Are any “Action Buttons” used? Are “Mouse Over” features used?
 - Use of Formatting; Slide Masters, slide designs, slide layouts, templates and backgrounds should be appropriate and should not be distracting.
 - Appropriate use of Animation Schemes and Custom Animation features.
 - Are “Notes Pages” used? Are they appropriate? Do they help?

PowerPoint Presentation Design Points Summary _____

60 points maximum

Overall (Content + Design) PowerPoint Presentation Points Summary _____

Total 120 points maximum