



SW MN Technical Skills Challenge
Minnesota West Jackson Campus- April 24, 2009 or
Minnesota West Granite Falls Campus– April 30, 2009

Solar Sprint Car Competition

Grade Level: 9-12

Individual or Team: Teams of 2 students

Activity: Utilizing renewable energy is crucial to our future, and one of the most promising energy sources is solar power. So, we've created an exciting competition that will tap the sun's energy and students' creativity as teams design, build, and race a small solar powered model car.

This contest will challenge students to demonstrate scientific and creative thinking, experimentation and teamwork while designing and building their vehicles.

Students may be asked to complete a short quiz to assess their understanding of solar energy.

Time Frame: Approximately 2 hours

Materials/Equipment Allowed: Teams will be provided all the necessary tools to build their car including a solar panel, motor, wheels, gears, and car body materials. The solar sprint cars will be designed, constructed, and tested on the day of the competition. If adequate sunshine isn't available on the day of the competition, an alternate light source will be provided.

For more information about photovoltaic energy, you may want to look at this or a similar website:

<http://ezinearticles.com/?A-Simple-Explanation-of-What-Solar-Energy-is-and-How-it-Works&id=320214>

Judging: Teams will receive awards based on their understanding of the technology, craftsmanship, creativity, and track performance.

Questions:

Gail Polejewski 507-537-2273, email: gail.polejewski@swsc.org

Gail Polejewski
SW/WC Service Cooperative
1420 E. College Dr.
Marshall, MN 56258

**SW MN Technical Skills Challenge
Solar Sprint Car
REGISTRATION**

School: _____

Mailing Address: _____ Zip: _____

Instructor Name: _____

Instructor's Email: _____ Phone: _____

I am registering students for the following Solar Sprint Car Competition:

_____ Jackson Campus, April 24, 2009

_____ Granite Falls Campus, April 30, 2009

- Event will run from 9:30-2:30 at either campus

Team Competition (Grades 9 - 12):

Student Name/Grade:

Team #1: _____

Team #2 _____

Team #3 _____

* If more registration space is needed, please copy this page as necessary.

Contact Gail Polejewski at 507-537-2273 or gail.polejewski@swsc.org with any questions.

EARLY BIRD Registration Fee: \$10 per Student if Postmarked by April 3, 2009.

Registration cost after April 3: \$20 per student. NO registrations will be accepted after April 17.

Check Enclosed Please Bill My School (Purchase Order#: _____)

Checks payable to: SW/WC Service Cooperative, Technical Skills Challenge

Refunds are not available. Substitutions are acceptable. If possible, please call before the event with student name(s) for any substitutions.

Mail or FAX this completed registration to:

SW/WC Service Cooperative
1420 East College Drive
Marshall, MN 56258
Attn: Laurie Van Watermeulen
Fax#: 507-537-7327