



DSBN REGIONAL GRADE 7/8 TECHKNOWLEDGE CHALLENGE 2009 ELEMENTARY LEVEL SCOPE

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PURPOSE OF THE CONTEST:

Due to concerns over declining fossil fuel sources and polluting the environment, demands for clean renewable energy sources have increased. As a result, the World Environmental Council is calling for countries to lessen their dependency on fossil fuels and develop clean, renewable energy sources.

Your design and engineering team must submit a proposal, complete with a working prototype, design sketches and written documentation to World Environmental Council. Each team will be asked to demonstrate the effectiveness of their design by using their prototype to create clean energy.

EVENT DETAILS:

Date: Feb. 18, 2009

Time: 9:00 - 3:30

Location: Fort Erie , Stamford, St. Catharines Collegiate, Lakeport, West Park, Grimsby, and E.L. Crossley D&T Centres

The top two finishers at each qualifying contest will compete in the DSBN finals at Brock University on Feb.20, 2009 from 1:00 - 3:00 for the right to represent DSBN at Skills Ontario.

SKILLS AND KNOWLEDGE TO BE TESTED:

Using a wide variety of materials provided on the day of the contest, co-ed teams of 4 students will design and build prototypes of their energy generator using the resources available at the D&T shop. These resources include computers, hand tools and power tools. The students will be judged on their ability to follow the "Design Process" to develop their prototype as well their ability to safely construct and demonstrate its effectiveness.

SAFETY REQUIREMENTS:

Competitors are required to follow all industry safety standards during the competition.