

## CWSF 2010 - Peterborough, Ontario



### Angela Howell

#### De-PHI-ing Nature

**Division:** Physical & Mathematical Sciences

**Category:** Intermediate

**Region:** Saskatchewan Chinook

**City:** Swift Current, SK

**School:** Swift Current Comprehensive High School

**Abstract:** This is a project exploring plant alteration (ex: hybridizing, genetically modifying) and the response of the ancient ratio PHI (or 1.6180339..) in the physical characteristics of plants. A number that has been linked as a designing factor for nature, it is an attempt to see what happens to this number when nature is definitively changed.

#### Biography

Angela Howell lives on a grain farm near Swift Current and Outlook, Saskatchewan. Her interests are that of music, animals, and a powerful passion for environmental and social action. In the future, she hopes to pursue a career as an environmental and agricultural engineer and find ways in which to make food production more sustainable.