



Students and their families are invited to a Family Science Night at Sandhills! Engineering Science Quest, from the University of Waterloo, will offer small-group workshops in several classrooms and a variety of interactive activities in the gym. Children and their parents will have the opportunity to experience hands-on science and engineering, and get excited about learning together!

Classroom workshops will take about 40 minutes each and include the following activities for all ages:

- **Dino Defense** - Students will explore animal adaptations through creating a defense mechanism to protect a herbivore from a carnivorous dinosaur!
- **Handy Gadget or Robo-Arm** - While learning the biology of muscles, joints and tendons, students will build their own robotic hand or arm that moves like a real one!
- **Going Green** - It isn't easy being green! Build a simple greenhouse to hold and protect a seed, while still allowing enough sunlight to reach the plant
- **Density Tubes** - Investigate how different solutions react with each other due to differences in density. Can you hypothesize which liquid will float and which one will sink?
- **Makey Makers** - While learning about conductors and insulators, students will create an electronic keyboard that plays music with the touch of a finger!
- **Can You Hear Me Now?** - Students will investigate how sound waves travel through different materials as they attempt to engineer the most sound-proof box possible.

Sandhills Public School
Thursday, December 3, 2015
6:00 – 8:00 p.m.
Light refreshments provided