



**Northlake Woods Public School**

500 Northlake Drive, Waterloo, Ontario N2V 2A4 519 885-1115  
nlw.wrdsb.on.ca

*Working and learning together in harmony with our environment*

## Northlake Woods Art, Science, & Technology Showcase Thursday, February 25, 2016

The date of our annual *Art, Science, & Technology Showcase* is quickly approaching! Now, and over the holiday break, is an excellent time to start thinking about project ideas and your participation in this year's fair.

- Do you want to do a science experiment; an art project; a little of both?
- What would you like to learn more about? How would you like to inspire others?
- Do you like to research, experiment, and prove your ideas?
- Do you like to craft, shape, design, and share your creativity?

**Every project is welcome and encouraged - Enthusiasm is the only requirement!**

The *Art, Science, & Technology Showcase* is a wonderful opportunity for students to learn about a new topic or create something, display their results, and share their interests with the entire Northlake Woods community. The fair is open to every student, from JK to Grade 8. Participation is optional, but enthusiastically encouraged. Students in Grades 7 & 8 who complete a science project will have the opportunity to have their projects judged for advancement to the annual Waterloo-Wellington Science and Engineering Fair (April 2016).

Assistance from parents with projects is strongly encouraged. Parental involvement may include:

- Research assistance: brainstorming ideas; narrowing hypotheses; visiting the library, art galleries, museums, nature centres...; monitoring experiments; and so forth.
- Taking photographs, gathering materials, and assisting with project display construction
- Transporting the project to and from school on the day of the fair.
- Photographing the student with their final display! (photographs will not be taken by the school)

A few practical considerations for your project

- All work is to be completed at home.
- A three panel project display board will be provided to all students. The display board is 180 cm wide and 60 cm high (Primary & Junior students) or 120 cm high (Grade 7 & 8 students).
- All projects will be on display tables in the gymnasium, tables will be arranged by grade level.
- Electrical outlets will be available upon request (this will need to be indicated on the registration form). Students are to provide their own extension cords and/or power bars.
- **BE SAFE!** Do not use live animals, hazardous materials, live electrical wires, open flames...

If you have any questions about safety considerations, or possible project ideas, please speak to your classroom teacher. Mr. Glebe and/or Mr. Harris are also available to answer any questions.

**A follow up notice and registration information will be sent home during the first week of January. At that time, students will identify their project topic (and project partner, where applicable) and indicate if they would like their project to be judged for Regional Science Fair (Grade 7 and 8 only).**

Need a little inspiration? Check out the other side of this page. We can't wait to see **your** ideas!

# Looking for a project idea?

## Science & Technology projects from past years

- How Does the Heart Work?
- Does Acid Rain Affect Plants?
- Hydro Electric Dam
- How Do Bike Shocks Work?
- What Do Seeds Need to Grow?
- Making Colours
- What is Inside a Telephone?
- How Butterflies Protect Themselves
- Solar Energy
- Will the Titanic Rot Away?
- Icebergs and How They Form
- Lunar Eclipse
- What Causes a Volcano to Erupt?
- The Digestive System
- How is Honey Made?
- Why Do Things Fizz?
- Lasers
- Bubblegum
- How Do Planes Fly?
- How Do Gears Work?
- Patterns in Nature
- Recycling
- Lego Robotics
- Animal Homes
- Vermicomposting

- The Life of a Tree
- Tattoos
- Musical Instruments
- Sound
- Whales
- Animal Colourings
- Our Eyes and How We See
- Viruses
- How Computers Are Used
- Making Batteries
- Canada's Natural Resources
- What is Inside Fruit?
- Parts of a Leaf
- Where do Beavers Live?
- Good or Bad Insects
- Metals That Conduct Heat
- The Human Heart
- How Does a Tooth Decay?
- How do Greenhouses Work?
- Filtering Water
- What is the Best Wing Design?
- Kites
- Fresh Water Fish
- Algae
- How Strong is a Spider's Web?

- What Affects the Strength of Concrete?
- Build a Hygrometer
- Build a Potato Clock
- How Does a Wind Turbine Work?
- What is Protein?
- Wind Chill
- World Population
- Nests
- Reptiles
- Gravity
- Your Backyard Ecosystem
- Melting Rates of Ice
- How Does Frost Form?

### ***My project ideas:***

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

## Art project ideas

- Watercolour Painting
- Pen and Ink
- Charcoal or Pencil
- Coloured Pencil/Crayon/Marker
- Clay Sculpture
- Floral
- Landscape
- People
- Buildings
- Animals
- Computer generated art
- Photography
- Make a wearable Halloween mask

- Clothespin butterfly
- Scrap booking page
- Art created using items from nature
- Write a poem about...
- Art from hardware parts
- Handmade jewellery
- Plastic model kit, build and decorate
- Papier Maché art
- Self portrait
- Sculpture made of tin foil
- Make a face-cloth creature
- Make a sponge painting
- Recycled products art

- Decorate a flowerpot
- Pop can pull tab art
- Make something useful from something useless

### ***My project ideas:***

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

## Consult these and other websites, for inspiration:

<http://wwsef.uwaterloo.ca/>

<https://diy.org/>

<http://www.sciencemadesimple.com/>

<http://www.gallery.ca/en/>

<http://wonderopolis.org/>

<http://www.billnye.com/>

<http://www.britannica.com/>

<http://www.goldsworthy.cc.gla.ac.uk>

<http://www.ago.net/>

**The possibilities are endless!!**