

# **Little Brown Myotis**

### **Arctic Energy Inspiration**

The little brown myotis is nocturnal and hibernates all winter. That means it has to eat enough insects during short summer nights to provide all the energy it needs for the whole year! Bats need to conserve energy in order to survive, so they slow down their metabolism in the winter. They can eat their body weight in insects every night – up to 600 insects in one hour. Can you imagine eating your body weight of food every day?

Little brown myotis (2:30)

David Attenborough explaining hibernation in little brown myotis

SMART Board / Promixa Ready

Northern Resources

# **Gr.6 NWT Energy Pyramid**

# ARCTIC ENERGY

**OBJECTIVE** Students will learn about energy conservation in the NWT and be able to describe effective methods for conserving energy. They will also have the opportunity to learn about renewable energy through extension activities.

Meeting the energy needs of households, communities and industry in the Northwest Territories is difficult, but critically important. Imported fossil fuels provide a large percentage of heat and power used and our dependence on outside products puts us at an economic disadvantage; we are vulnerable to high costs, price volatility and supply disruptions. Burning fossil fuels also emits large quantities of greenhouse gases that contribute to the changing climate that is affecting the North. It is important to develop new plans to create energy independence and increase our energy security. The best way to responsibly increase our energy needs is to conserve energy, look for energy efficient alternatives and invest in renewable energy!

Pg 2 Curriculum Links

Pg 4 Teacher's Resources

Pg 5 Lesson Plans

Pg 16 Wild Ideas Pg 17 URLs



# **CURRICULUM Links**



The activities and resources in this document are intended to tie in with Grade 6 science and technology curriculum *Motion*, the Grade 6 physical education curriculum, as well as the **Dene Kede** and **Inuuqatigiit** curriculum relating to the land. You can find specific learning outcomes for each of these by following the links below. The Dene Kede and Inuuqatigiit curriculum contain a lot of useful advice about bringing northern culture, language and traditional knowledge into the classroom. In culture-based education, teachers are expected to offer students the opportunity to extend learning experiences necessary in K–12 skills.

Teachers are to involve students in key experiences, both on the land and in school. In addition, culture-based education is enhanced with the involvement of Elders. ECE has developed a resource to provide valuable information about inviting Elders to contribute to lessons and related activities. Interview templates are included as well as practical advice about compensation (see **Teacher's Resources**). Here are some examples of where the lessons in this resource connect with these different curricula. Some suggestions for making connections have been included in the lesson plans, too.

# <u>Grade 6</u> <u>Science & Technology - Motion</u>

### **General Learning Outcome**

Students will demonstrate an understanding of different kinds of motion (linear, rotational, reciprocating, oscillating).

# **Specific Learning Outcome**

Students will describe, using their observations, ways in which mechanical devices and systems produce a linear output from a rotary use input, use appropriate vocabulary, including correct science and technology terms In describing their investigation and observations.

### **Connected Lessons**

Lesson 3 - Bikes are Changing the World!

# Grade 6 Physical Education

### **General Learning Outcome**

- A Developing locomotor, manipulative skills and application of skills in an alternate environment
- **B** Physical fitness and well-being
- D Active living in the community



# **CURRICULUM Links**



# **Dene Kede - Land**

# **General Learning Outcome**

With the aid of the Dene Language, students can explore the following thematic units: Fire, Water and Rivers, Trees, Sun, Camping, Geography and Land Use, The Arrival of Non-Dene.

# **Specific Cultural Expectations**Students will understand the importance and meaning of their relationship to the land.

### **Connected Lesson**

Lesson 1 - Energy Pyramid



# <u>Inuuqatigiit - Land</u>

# **General Objectives**

The following is a list of thematic units with relevant connections between the Innuqatigiit curriculum and **NWT Energy Pyramid**.

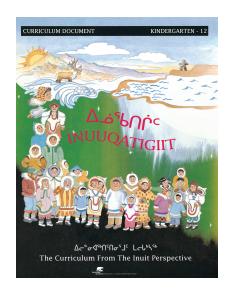
### **Key Themes**

Land, Water, Sky, Weather and Weather Predicting.

### **Connected Lesson**

Lesson 1

**Energy Pyramid** 





# **TEACHER'S Resources**



# Websites and Handouts

### **WWF's Earth Hour Toolkit**

http://schools.wwf.ca/Lessons/ Grade/6/140

### Manitoba Hydro Electric Universe

http://manitoba.electricuniverse.com

### **Interactive Energy Exploration**

http://www.seedsfoundation.ca/els/Lobby/

#### Food Miles:

### **Growing Local Food Connections**

http://fallsbrookcentre.ca/fbc/wp-content/uploads/2010/09/Food-Miles-Module.pdf

### Paths to a Renewable North

http://www.anorthernvision.ca/documents/RenewableEnergy
InventoryEN.pdf

### **Guide to Ride Program**

http://www.phecanada.ca/ programs/bicycle-safety-guide-ride

### Green Learning COOL 2.0 Education Database energy conservation lesson plans and resources

http://cool.greenlearning.ca/datab ase/?search=go&Keywords=energy +conservation&TypeID=&CatID=& SubjectID=&YearID=&GradeID=& StateID=&LanguageID=

### A Handbook of Power Smart energy Efficiency Learning Resources

http://www.edu.gov.mb.ca/k12/tech/imym/6/resources/pemp\_2005.pdf

### **Greenhouse Gas Strategy**

2007 - 2011 (interesting chart on page 9)

http://www.enr.gov.nt.ca/ sites/default/files/strategies/ greenhouse\_gas\_strategy\_final.pdf

2011 - 2015

http://www.enr.gov.nt.ca/sites/default/files/strategies/ghg\_strategy\_2011-2015.pdf

# **Videos**

#### Can-Bike Videos

http://canbikecanada.ca/videos/

### People of a Feather Trailer (2:29)

http://www.peopleofafeather.com/

# **Books**

# Pedal It! How Bicycles Are Changing The World

Michelle Mulder Orca Books, 2013 ISBN: 978-1459802193 www.orcabooks.com

### **Teaching about Climate Change**

Tim Grant and Gail Littlejohn http://greenteacher.com/books/ climate-change/

# Not Your Typical Book about the Environment

Elin Kelsey Illustrated by Clayton Hanmer Owlkids Books, 2010 ISBN: 978-1897349847 www.owlkidsbooks.com

### This Is My Planet

Jan Thornhill Owlkids Books, 2007 ISBN: 978-1897349076 www.owlkidsbooks.com

#### **50 Climate Questions**

Peter Christie Illustrated by Ross Kinnaird Annick Press, 2012 ISBN: 978-1554513741 www.annickpress.com

### **Who Wants Pizza?**

Jan Thornhill Owlkids Books, 2010 ISBN: 978-1897349977 www.owlkidsbooks.com



# **LESSON Plans**



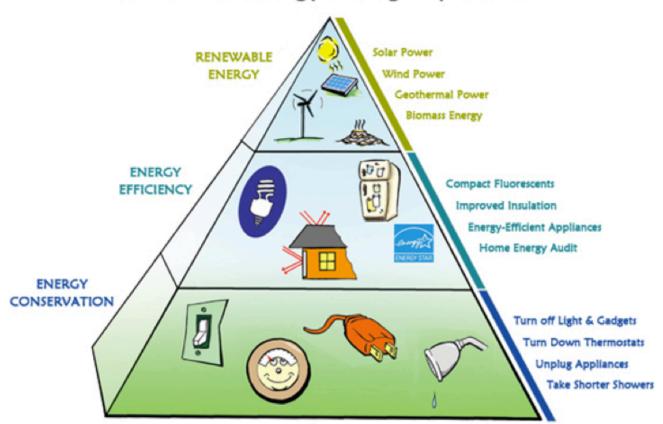
# **Lesson 1: Energy Pyramid**

### 1 class period.

What's the best way for the world to reduce the cost of energy? Students might say "use solar" or "renewable energy." When discussing smart uses of energy, people tend to tout the benefits of renewable energy, but, ultimately, **energy conservation** is the number one way to reduce your **energy footprint**. Your goal can be to use the least amount of energy possible, no matter what the energy source.

Divide students into pairs or small groups. Distribute the **Smart Energy** cards on the next page to students. In their groups, students discuss and assign a priority number between 1 and 3 to each card (e.g., 1 is a most beneficial energy-saving action). Groups may come to different conclusions, but the take-away should be energy conservation is the number one strategy for reducing your energy footprint in the NWT.

# The Smart Energy Living® Pyramid



Source: http://smartenergyliving.org/index.cfm/ID/4/Resources/

# **SMART Energy**



Cook more than one thing at a time	Open windows instead of using A/C
Ride your bike	Solar power
Wind power	Geothermal energy
Biomass energy	Make the switch to CFLs
Make the switch to LEDs	Improve home insulation
Buy energy-efficient appliances	Get a home energy audit
Turn off lights	Unplug gadgets
Turn down the thermostat/use less heating fuel	Unplug appliances
Take shorter showers	Use a laundry line to dry laundry

 $\textit{Grade 6/theme 2. This resource is available as a free download from \underline{\textit{WWF-Canada}} \ \textit{Schools for a Living Planet}. \ \textit{Visit } \underline{\textit{schools.wwf.ca}}.$ 

# **LESSON Plans**





© WWF-Canon / Richard Stonehouse

# Lesson 2: Eating Up the Distances!

1 class period.

# Tale of the Travelling Tomato

Modified from Falls Brook Centre's Food Miles (see **Teacher's Resources**). This activity will help introduce students to the understanding of how much energy is used when transporting our food long distances.

### **Materials**

- Tale of the Travelling Tomato character cards (next page)
- A green tomato and red tomato from the grocery store (Mexico would be best)
- A locally grown tomato, if possible

Ask for 8 students to help you tell the tale of the travelling tomato. Give out the character cards and have the student acting as Carlos begin the story. When Carlos comes to the next name in the story, he should hand the tomato to student playing that role, once they identify themselves.

Debrief by discussing what parts of the tomato's journey consumed energy. *How might a travelling tomato's energy footprint compare to a local tomato's?* 



# TALE of the Travelling Tomato Character Cards



### **Janet**

Grocery store owner
I'm the grocery store
owner and I finally got
my shipment! These
tomatoes have travelled
further than I ever have!
They're a little banged up,
but people will still buy
them. Hand to Donald.

# **Jimmy**

American truck driver
I have even farther to go
than Gabriela! I'll make
sure I drink some coffee
to stay awake... all the way
to the Canadian border
where I give the tomatoes
to **Jeffrey**.

### Fred

Northern truck driver
I'll drive these all the way
up to your community
name. They took a whole
week to get here; I hope
everyone enjoys them! I'll
deliver them to Janet at
the grocery store.

## Eduardo

The picker in Mexico
I am the picker and I
know the tomato isn't
ripe yet, but I have to pick
the tomato while it is still
green so it will survive its
long trip! Once it is picked,
I hand it over to Gabriela.

# **Jeffrey**

Canadian truck driver
I'll drive this load of
tomatoes from the
American border to
Edmonton. I'll stop and
have a BLT at a diner,
and then I'll hand these
tomatoes over to Wanda.

### **Carlos**

The farmer in Mexico
I am a farmer in Mexico
and I have been growing
this tomato. I know I
have to grow a lot to meet
demand so, to ensure it
grows, I spray the tomato
with pesticides. Once it's
grown, I hand the tomato
over to the Eduardo. Pass
green tomato.

## Gabriela

Mexican truck driver

It's a long way to Canada! These tomatoes have to travel thousands of kilometres... I'll take them to the American border and hand them off to **Jimmy**.

### Wanda

Food services warehouse owner

I am the food importer warehouse owner. These tomatoes I received are still green, so I have to gas them with ethylene for 24 hours to make them turn red. Once they're red, I'll give them to **Fred** to drive north. Pass red tomato.

### **Donald**

**Shopper** 

I'm just shopping for my groceries. Some of these tomatoes are a little hard and some of them have spots already, but oh well! They travelled a long way, but I'll buy them anyways.

# **LESSON Plans**





© Peter Ewins / WWF-Canada

# Mapping Our Meal

Now that we are aware that some food has to be grown/gathered in other places, let's map our meals and see if we are making choices that help us eat food that is produced closer to home!

### You'll need

- Map Our Meal worksheet for each grouping of food
- World map, map of Canada and map of the NWT or your community map
- Rulers/string for measuring distances
- Calculators
- Food items from around the world, across Canada and your community

### Steps

- Break the class into three groups. Give one group the world map and world food items from the grocery store, one group the Canadian map and options, etc. If you teach a small class, you could do this activity all together.
- Using the maps, rulers and calculators, have students measure the distances their food items travelled and record their findings on their worksheets. They should be able to find product information on the label, and label the local items yourself (e.g., whitefish from Great Slave Lake).
- Have students guess which types of transportation may have been used to get the food to its destination. Estimate the greenhouse gas emissions based on these stats (per km / per kg of food) from Environment Canada (2002): plane - 1.1010; boat - 0.1303; train – 0.0212; truck – 0.2699.
- 4. Gather all the data on one chart and compare your findings. Debrief with the following questions: How much further did the around the world items travel? Why do people buy that stuff? What are the other benefits of country food besides saving energy? How can you eat more food from local sources?

### **Extension**

If your community has a community garden, you could get a student plot to plant in the spring. Students, parents, school staff or other community members can volunteer to weed, water and mulch the plot over the summer months. Harvest your garden in the fall. For more information, contact <u>Ecology North</u> and ask about the Weledeh Garden Program.



# MAP Our Meal!



Food item	Where it's from	How it travelled and CO <sup>2</sup>	Total Cost of travel	
		Plane km x 1.101g  Boat km x 0.1303g  Train km x 0.0212g  Truck km x 0.2699g  Total	of GHG = of GHG = of GHG = Total	KMGHGemissions
		Plane       km x 1.101g         Boat       km x 0.1303g         Train       km x 0.0212g         Truck       km x 0.2699g         Total	of GHG = of GHG = of GHG = Total	KMGHGemissions
		Plane       km x 1.101g         Boat       km x 0.1303g         Train       km x 0.0212g         Truck       km x 0.2699g         Total	of GHG = of GHG = of GHG =	KMGHGemissions
		Plane       km x 1.101g         Boat       km x 0.1303g         Train       km x 0.0212g         Truck       km x 0.2699g         Total	of GHG = of GHG = of GHG = Total	KMGHGemissions
		Total Distance Our Meal Can Total GHG Emissions	ne From	

# **Lesson Plans**



# Lesson 3:

# Bikes are Changing the World!

You can reduce your energy footprint by changing the way you travel! Walking, sharing rides (carpooling) and biking are easy ways to use less fossil fuels to get around. Learning to bike is an easy way to promote physical literacy and give students the opportunity for playground fun (BMX) to road racing! How many of your students own a bike? What's their favourite thing about cycling? Make a list on the board of all the good things about cycling.

# Bikes in our community:

Teacher Note: You can use the "Understanding Biking" handout page, 7 in the Guide to Ride Program (see Teacher's Resources) for this activity.

As a class, brainstorm why people ride bikes (exercise, transportation, independence, for fun, etc.).

What are the environmental benefits of biking? Pollution-free, don't use fossil feul<sup>8</sup>, decreased less infrastructure required (roads) and space (parking) requirements, less wear on roads, less noise... Read a selection from *Pedal It!* (see **Teacher's Resources**) to help with your discussion.

Discuss how much energy is used when biking to school and how much energy is used when you drive to school. Hand out the Biking vs. Driving Calculator on the next page and ask students to complete it.

## What are the Benefits of Riding?

How efficient is biking compared to other forms of transportation? Check out this neat explanation using eggs from Bike to Work Day Calgary.

### Extension

Have students make posters with a catchy phrases about why people might want to bike more and display them around the school.

# **②** Bike History Investigator

Divide students into pairs and have them interview each other about their experiences with biking.

- 1. How long you've been biking and often do you bike?
- Who else in your family bikes?
- What are your top five things you do when biking?
- 4. What is something that could be done to encourage more people to bike in your community?

#### **Extension**

You could have your students do a larger project that includes a community survey. They could interview people at the store or at a community event over a weekend. How many people use bikes in your community? Why do they bike? Why don't they bike? You could give students the option to observe biking in the community for a week. What do they notice?



# **Biking vs. Driving Calculator**



Name			
Date			

# **Distance to school**

Distance travelled every day .....

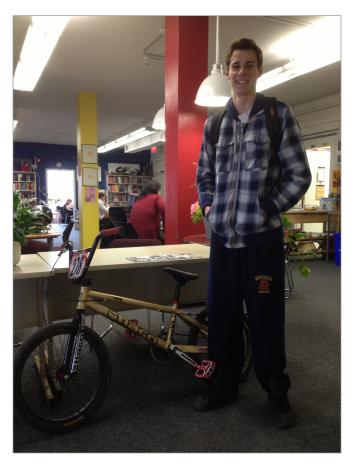
(multiply by 2 if you stay at school for lunch or by 4 if you go home and come back at lunch time)

Distance travelled every year .....

(multiply by numbers of days in school year)

### Biking benefits

- How much fuel money could you save by biking to school? How much emissions?
- What other expenses would you be reducing besides fuel money?
- What other benefits would you get from biking to school?



© Subway Academy II

# **Biking vs. Driving Calculator**



	A	В	C	D
Type of Vehicle	Fuel per yr. in L	Price of gas	Cost per yr. for gas	Total CO2 emissions
Fuel consumption CO2 emissions	X distance by fuel consumption	Approx. \$1.70/L	ΑxB	A x emissions rate
		In your community		
Diesel truck		Diesel costs		
12.6L/100km		\$/L		
Co2: 2.6 kg/L				
Car		Gas costs		
7.6L/100km		\$/L		
Co2: 2.3 kg/L				: : :
ATV		Gas costs		
5.8 L/100km		\$/L		
	:			
Snowmobile		Gas costs		
8.0 L/100km		\$/L		
	<u> </u>			<u>:</u>
Bike				

# **Lesson Plans**



# Bike Mechanics

# Have your students investigate the mechanics of a bike

- Label the parts of a bike
- Describe how energy is transferred
- Describe what can be done to make the bike work more efficiently

# Get Biking!

 Plan an outdoor classroom or lunch trip that your class can bike to. Involve enough parents and volunteers so that there is a safe ratio of kids and adults. Make sure all the students own proper helmets or have access to them.

### Can Bike

Fun and educational videos on bike safety, including Bike Helmets 101.

## Tips for safe cycling in Yellowknife

Before you head out, go over safety tips for biking on roads and trails.

### Safe Routes

Organize bike relays and races in the school yard or parking lot.

#### **Extension**

One of the barriers for kids biking to school to reduce their energy consumption is that they may not have a bike, or their bike may be broken. Some schools have started a "Bike School" program where they can take donations or stolen/unclaimed bikes from the RCMP and learn how to fix them up so the school has a set of bikes!

### **Bicycle Tutor**

Bike maintenance tutorials

# **Barrie Central Collegiate**

"I'm the Student Success teacher at Barrie Central Collegiate," says Daryl O'Brien. "I work with students at risk of not succeeding at school. Firebird Community Cycle is one of our programs to keep students engaged." Firebird Community Cycle is a student-run bike shop that operates out of what O'Brien calls a derelict small engines classroom. Working with scavenged tools and equipment during lunchtimes, the program has already managed to put dozens of disadvantaged students on the road. It's also put students on the path to green living. "Firebird Community Cycle is a great vehicle to promote environmental awareness by teaching students unique ways of reducing their carbon footprint," says O'Brien. "By working with donations of unwanted bikes from the community, we divert garbage from the landfill." "While this program promotes recycling and emissions-free transportation," says O'Brien, "it also provides students with the opportunity to develop the hard technical skills required to maintain bicycles that would otherwise end up in a landfill."



© Barrie Central Collegiate

# **Lesson Plans**



# Lesson 4: Investigating Renewable Energy in the NWT

## Renewable vs. Non-renewable

On the board, write the two types of energy sources: renewable and non-renewable. Visit the photo gallery here

and project photos of renewable and non-renewable energy sources on the SMART Board or Proxima projector. Ask for volunteers to tell the rest of the class whether what's in the photo is renewable or non-renewable and why. Get students to help you create definitions of non-renewable and renewable energy sources:

Fossil fuels like coal, oil and gas are **non-renewable**. These took billions of years to form underground and there are two main problems with them: after we use them up they cannot be replaced, and they cause pollution that contributes to climate change.

**Renewable energy sources** are freely available and will last forever. They are also called "clean energy" or "green power" because they do not create the pollution that comes from burning fossil fuels. These energy sources include wind, solar, biomass, hydro-electricity and geothermal.

\*Note: non-renewables are needed to create renewable energy technologies that can help us reduce greenhouse gas emissions. Switching to more focused energy efficient uses of our limited supply of fossil fuels can help us create longer lasting renewable energy technologies such as solar panels, wind turbines, concrete to make dams, etc.

Ask the class if anyone has heard of any renewable energy projects in the territory. Have some newspaper articles (see right-hand column) printed to reference or hand out. Have the students do a research assignment on a renewable energy project in the north and make a poster, oral or video presentation. *How does this* renewable energy technology produce energy? Where is it being used? What are the benefits and what are the drawbacks?

Some examples are

### 1. Hydroelectric

Most of the power generation for the Great Slave Lake communities come from the Snare/Bluefish Hydro Facility and the Taltson Hydro Facility. There was a small in-stream hydro-kinetic turbine that was being tested in the Mackenzie River near Fort Simpson.

NWT seeks higher borrowing limit for 'legacy' hydro intertie

#### 2. Solar

Solar panels are being used in many communities! Lots of municipal buildings have solar panels and lots of families have them, too! There is a large solar project in Fort Simpson.

Power Corp. expands Simpson solar project

#### Wind

The hamlet of Tuktoyaktuk is planning for a 300 kW wind power project using regional hub-and-spoke model. Learn more below.

- **■** Tuktoyaktuk to get 4 wind turbines by 2011
- Tuktoyaktuk on front line of climate change

### 4. Biomass

This is being used all over the NWT in homes, government buildings, schools and businesses! There are plans to increase this sector.

Pellet plant gets green light from N.W.T. government

### Geothermal

There have not been any major geothermal projects, but much research has been done on the potential in Fort Liard.

**■** Ft. Liard Geothermal Energy Project

# **WILD Ideas**



### **WWF's Earth Hour toolkit**

Have your classroom or school participate in this campaign! The toolkit contains activity ideas as well as some activity sheets.

### YK2HR

Research the YK2HR (Yellowknife to Hay River) bike trip. Would you be interested in trying that type of long trip? What would you need to plan?

### Bike/Walk Week

Plan a community-wide bike or walk to work week!

### Winter biking

Winterize biking. Do you know anyone who bikes in the winter? What would you need to do to make this work? Warm hand protectors, spikes on the tires...

### NTPC - Solar Generation at Fort Simpson

Track the Fort Simpson solar project. Every day, you can follow the solar energy production of the Fort Simpson project.

### People of a Feather

Watch this film about the effects of Hydro-Quebec on Inuit culture and Arctic coast wildlife. Discuss the issues with the renewable energy source of hydro in mind.

# Solar car sprints - Teaching About Climate Change

Try this activity from by Tim Grant and Gail Littlejohn (page 28).

### Snap circuits green

Learn about energy sources and how environmentally friendly energy and electricity can work in your home (includes geothermal, hydrogen fuel cells, wind, solar, tidal and hydro).



© Frank PARHIZGAR / WWF-Canada

# **URLS**



Some hyperlinks have been embedded throughout the **NWT Energy Pyramid** resource. If a link appears to be broken, try visiting the homepage or keying in the URL as it's written below.

## Little Brown Myotis hibernation video

http://www.arkive.org/little-brown-myotis/myotis-lucifugus/video-00.html

### Tips for safe cycling in Yellowknife http://www.cbc.ca/news/canada/north/tipsfor-safe-cycling-in-yellowknife-1.1363872

Can-Bike Bike Helmets 101 http://canbikecanada.ca/videos/

#### Bicycle Tutor for bike maintenance videos http://bicycletutor.com

#### Safe Routes website

http://www.saferoutespa.org/Resources/ Final-Sixth-Grade-Lesson-Plans.pdf

### **Contact Ecology North**

http://www.ecologynorth.ca/

#### WWF's Earth Hour toolkit

http://schools.wwf.ca/Lessons/Grade/6/140

## Fort Simpson in-stream hydro turbine

http://norj.ca/2013/10/nwt-seeks-higher-borrowing-limit-for-legacy-hydro-intertie/

### Fort Simpson solar project

http://norj.ca/2013/02/power-corp-expands-simpson-solar-project/

#### Tuktoyaktuk wind power project

http://www.cbc.ca/news/technology/ tuktoyaktuk-on-front-line-of-climatechange-1.845397 and http://www.cbc.ca/ news/canada/north/tuktoyaktuk-to-get-4wind-turbines-by-2011-1.807838

#### Biomass plans

http://www.cbc.ca/news/canada/north/pellet-plant-gets-green-light-from-n-w-t-government-1.1225742

#### Geothermal research

http://www.borealisgeopower.com/uploads/ Ft. Liard Geothermal Project .pdf

### People of a Feather film

http://www.peopleofafeather.com/

## Teaching about Climate Change book

http://greenteacher.com/books/climate-change/

#### **Snap Circuits Green**

http://www.snapcircuits.net/products/ product\_details/snap\_circuits\_ green\_&reg:=MzY0







WWF is Canada's largest international conservation organization, working to build a future where people live in harmony with nature. The Schools for a Living Planet program empowers educators and students of all ages with the tools they need to lead us into a sustainable future. Schools for a Living Planet is grounded in the principles that make WWF a global success - including strong science and a focus on solutions.

Ecology North is a charitable, non-profit organization that has engaged Northerners in handson learning opportunities in the Northwest Territories since 1971. Our mission is to bring people and knowledge together for a healthy Northern environment. Education, public engagement and youth involvement are integral to all of our program streams that include climate change adaptation, watershed protection planning, waste reduction, food sustainability and alternative energy promotion.

This project was made possible with the financial support of CIBC. For more information, visit <a href="www.cibc.com">www.cibc.com</a>.

WWF-Canada and Ecology North would like to thank the classroom teachers across the Northwest Territories who contributed many of the ideas presented here, especially Ellie Baxter, Teresa Chilkowich, Charla Martinuk, Kathy Tollenaar and Shawn Mosey. Ecology North Education Committee member Tasha Stephenson also provided guidance. This resource is available as a free download from WWF Canada Schools for a Living Planet. Visit <a href="mailto:schools.wwf.ca">schools.wwf.ca</a>. © 1986 Panda symbol WWF-World Wide Fund For Nature (also known as World Wildlife Fund). ® "WWF" is a WWF Registered Trademark.