



The Science and Technology Hotline



June 2011

"[Science] is like a voyage of discovery into unknown lands, seeking not for new territory but for new knowledge. It should appeal to those with a good sense of adventure." - F. Sanger

Medicine Hat College Summer Camps

Week	Camp	Age	Time
July 4-8	The Land Before Time	Ages 5&6	PM
	Spa Science	Ages 8+	PM
	Camp CSI	Ages 9+	AM
July 11-15	Scien'TWISTS	Ages 6-8	PM
	Can You Dig It	Ages 7+	AM
	Robotics Mindstorm	Ages 8-11	AM
	Robotics NXT Generation	Ages 10-12	PM
	Mind Blowing Science	Ages 10+	AM
	Spy Science	Ages 10+	PM
July 18-22	The Land Before Time	Ages 5&6	AM
	Blast Off	Ages 7+	AM
	Gross Out Science	Ages 8+	PM
	Spy Science	Ages 10+	AM
July 25-29	It's a Bug's Life	Ages 6-8	AM
August 2-5	Scien'TWISTS	Ages 6-8	PM
	Mind Blowing Science	Ages 10+	AM
August 8-12	Blast Off	Ages 7+	AM
	Gross Out Science	Ages 8+	PM
	Robotics Mindstorm	Ages 8-11	AM
	Robotics NXT Generation	Ages 10-12	PM
August 15-19	It's a Bug's Life	Ages 6-8	AM
	Spa Science	Ages 8+	PM
	Camp CSI	Ages 9+	AM

Praxis and the Medicine Hat College are offering fun, educational half day summer camps at the Medicine Hat College.

We offer a camp for every inquisitive mind. Like dinosaurs? How about beauty products? Robots? We have a camp for that!

For more information or to register, please contact the Medicine Hat College Continuing Education department at 403-529-3844.

There are also links on the Praxis website.

www.praxismh.ca



MEDICINE HAT COLLEGE

Scientist of the Month:

Frederick Sanger

- B. August 13, 1918
- Notable English bio-chemist
- Father was a physician and mother had a large amount of wealth
- Privately tutored as a boy
- Took time during college to determine what he wanted to major in
- Studied the new science of biochemistry
- PhD thesis was written on "The metabolism of the amino acid lysine in the animal body"
- Had numerous contributions to the scientific community
- Determined the amino acid sequence of bovine insulin
- Sequenced both RNA and DNA
- The Sanger Sequencing Method to rapidly and accurately determine DNA sequences is widely used
- Is the only person to be awarded two Nobel Prizes in Chemistry
- Retired in 1983 and is still gardening at his home

Book your kits for next year! Our materials are all curriculum based and ready to use. Call 403-527-5365 to book your kits for next school year. View our materials: www.praxismh.ca

Other Exciting Summer Programs

Are you looking for something different to do this summer? Check out some of these activities.

Royal Tyrrell Museum (Drumheller, AB) - Offers public programs throughout the summer. Many are free with admission.

Telus World of Science Calgary—Creative Kids

Museum. Get your imagination going!

Edmonton—Sesame Street's The Body. Explore the human body as if you were actually in it! They also have an Imax theater.

Calgary Zoo - Take a day trip and explore the zoo. Meet some new friends in the different exhibits.

History in the Hills

(Elkwater, AB) - May 31-June 4 An opportunity to see a real archeological dig and learn more about native peoples

Medicine Hat Interpretive Centre—Police Point Park runs programs and special events throughout the summer. Check their website often.

Science Fair News

The Kiwanis Regional Science Fair sent three projects to the Canada-Wide Science fair in Toronto in May and came back with a slew of awards.

Connor Deptuck from CAPE received a bronze medal in the junior category with his project "Detecting Narrative Authors".

Katie van der Sloot and Rachel Brown from McCoy received a bronze medal in the senior category for their project "Triclosan: Double Danger". The girls also won the Canadian Commission for UNESCO—Science for Peace and Development Award, and will represent Canada at the Expo-Sciences Internationale in Slovakia in July. Great work ladies!

In total the groups came back to Medicine Hat with \$11,900 in scholarships, cash and prizes.

Congratulations to all of the groups that went. If you are interested in participating in Science Fair next year or be on the committee, the meetings will begin in September. Call Praxis for more details.



Solar Oven

With the temperatures hopefully soon soaring, no one wants to cook inside the house. Take the kitchen outside and build a solar oven and teach someone about the sun's energy!

Materials:

- large pizza box
- Box of tin foil
- Black construction paper
- Plastic wrap
- Masking tape
- String

Procedure:

1. Assemble the pizza box.
2. Measure a 3cm border around the edge of the top of the pizza box.
3. Cut a new flap from the top of the pizza box, make sure the flap stays connected to the crease of the box lid.
4. Line the inside sides of the pizza

box with tin foil, shiny side in.

5. Line the new flap of the pizza box with tin foil, shiny side facing you.
6. Tape the construction paper to the bottom of the box.
7. Fold the box so the 3 inch border is down and tape the plastic wrap over the hole to prevent bugs from getting your food.
8. Take your oven outside. Place it in direct sunlight. Put your food in the box and position the new foil covered flap so it reflects sunlight into the oven. Use the string and some tape to secure it.
9. Wait for your food to cook.

Explanation: The sun's rays are very powerful. In this experiment we used the sun to cook your lunch!

We used the black construction paper on the bottom of the oven to absorb the sun's energy. The tin foil helps reflect the sun rays (and energy) to the food. This helps cook it faster.

Go out and enjoy your new oven.

Word Search	
o g y t c h e m i s t r y s	Astronomy Minerva
s o e g t u b i o l o g y s	Biology Physics
n m r n o h r s c i s y h p	Chemistry Praxis
u a a i n l o r o a t s r m	Classroom Programs
r t s r o b o t i c s a i a	Chemistry Robotics
a h r e g c s n h c x a v c	Curriculum Science
s e e e a o m r h i u r e r	Engineering Summer
t e e n r s r r s c e l x e	Hotline camps
r n t i s m e p c n e h u m	Learning kits Technology
o i n g o s l a i r e t a m	Materials Thoth
n l u n r r n m e r a e l u	Math Volunteers
o t l e a r n i n g k i t s	
m o o r s s a l c e n y e s	
y h v r t r c o e o e u r s	

For all your Science needs contact Praxis

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