

A woman with a white headband and a patterned dress is pointing at a butterfly specimen in a display case. Three children, two boys and one girl, are looking at the same specimen with interest. The display case is illuminated, and other specimens are visible in the background.

# MNS<sup>2</sup>

MUSÉE NATURE SCIENCES  
SHERBROOKE

# EDUCATIONAL ACTIVITIES

2019-2020

[www.mns2.ca](http://www.mns2.ca)

## INVITATION :

On November 11 2019 will take place the *Rendez-vous des sciences de l'Estrie*. An activity organized by Technoscience Estrie in partnership with the Sherbrooke Museum of Nature and Science, the Chaire pour les femmes en sciences et en génie and Parlons Sciences. A unique occasion for teachers and students in education to increase their knowledge in the technology and digital fields.

For more informations and reservation:  
[www.technoscienceestrie.ca/le-rendez-vous-des-sciences-de-lestrie](http://www.technoscienceestrie.ca/le-rendez-vous-des-sciences-de-lestrie)

11.11.19  
SAVE THE DATE

The dynamic team of the Sherbrooke Nature and Science Museum presents activities that are fun, interactive, educational, and adapted to children's ages.

Whether you are a teacher, a day-care service provider, or an early childhood educator, take advantage of:

- a guided tour of the current temporary exhibition;
- a guided tour of the permanent exhibition, *AlterAnima*;
- the multisensorial show, *Terra Mutantès*;
- an educational workshop.

This same team welcomes you to the Maison de l'eau at Parc Lucien-Blanchard, where many discoveries await.

Each 60-minute tour focuses on some aspects of essential knowledge established by the Ministère de l'Éducation et de l'Enseignement supérieur.

To book a tour at the Museum or the Maison de l'eau, or for more information, please contact us at 819-564-3200, ext. 251 or email: [anne-marie.robitaille@mns2.ca](mailto:anne-marie.robitaille@mns2.ca)

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**WELCOME**  
NATURE AND SCIENCE  
MUSEUM

Come  
try a



## INDIGENOUS INGENUITY

## LIKE A FISH IN WATER



© Musée de la nature et des sciences



## CLOVIS, THE CARIBOU HUNTERS

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# TEMPORARY EXHIBITIONS

Educational activities are available for each of the temporary exhibitions and for all ages.

## INDIGENOUS INGENUITY

PRESENTED UNTIL OCTOBER 14 2019

The ingenuity of First Peoples from North America is all around us. Through an interactive quest, discover how indigenous science is timeless. With a bear and a trickster as your guides, take part in a virtual canoe race, test a kayak's centre of gravity, and discover interactive frescoes.

Observe nature, listen to knowledge bearers, experiment with scientific principles, and transmit and share your experience with others!

Realised and produced by Montreal Science Centre.

## LIKE A FISH IN WATER

PRESENTED FROM OCTOBER 26 2019 TO JANUARY 2020

Be Like A *Fish in Water* and discover this colourful interactive exhibition that takes you deep into the world of fish. Through sometimes amusing questions, colloquial expressions, games, an immersive zone, pictures and videos, our fish reveal many unknown, and sometimes comical facts about their lives.

Environmental repercussions and the fundamental roles played by aquatic animals are also emphasized throughout the exhibition.

Realised and produced by le Musée du Fjord.

## CLOVIS, THE CARIBOU HUNTERS

JANUARY TO MAY 2020

The glaciers began to recede in southern Canada around 15,000 years ago, leaving behind the tundra. Three thousand years later, the hunters who left what is now New England in the United States took advantage of beautiful summer days to travel north, towards the caribou herds. They reached the region of Megantic, in Quebec, just north of the present day Maine border. Because it seemed a propitious site for hunting, they established their camps there. They were among the first humans to have visited Eastern Canada. Archeologists defined them as the Paleoindian descendants of the Clovis culture. They left traces of their passage in the form of fluted spear points and stone tools that allow archeologists to interpret their life style.

You will leap back 12,000 years in the Megantic region, during the paleoindian era, right after the glaciers have left the territory to make place for the tundra. You will meet the first hunters that have stayed in Quebec, descendant of the Clovis pioneers. Discover their lifestyle and enter their shelter. Walk through the tundra to enter the scientific world. Experiment with the excavation pit, listen to archeologists and admire the artefacts found in the New England region.

A production of the Sherbrooke Nature and Sciences Museum with the collaboration of the Montreal University and the contribution of Canadian Heritage and the City of Megantic.





TERRA MUTANTÈS

© Karine Couillard



ALTERANIMA

© Karine Couillard



OUTDOOR ACTIVITIE

© Musée de la nature et des sciences

## PERMANENT EXHIBITIONS



### TERRA MUTANTÈS A MULTISENSORY SHOW

Enjoy a unique multimedia show while you discover how the topography of our region changed over millennia: you'll find yourself in the middle of the formation of the Appalachians, cross fields of lava, and feel cold and hot.... In short, you'll never see the landscape of the Eastern Townships the same way again!

This activity includes an introduction adapted to all ages, from elementary to high school.

**alter@nima**  
UNEXPECTED ENCOUNTERS

### ALTERANIMA

Don't expect an ordinary exhibition! In this fantasy forest, hundreds of animals are assembled watching in unexpected ways, visitors. Dare to visit the secret room and discover what is hiding in the tree trunks. Animals from here and away will captivate and surprise visitors of all ages.

Many educational activities for all levels of students are offered in this exhibition. Find them under the name "alter@nima".

## SCHOOL ACTIVITIES

### EARLY CHILDHOOD AND KINDERGARTEN (Ages 4-5)

#### BABY GROWS UP alter@nima

Children are entrusted with a stuffed baby animal. Did it grow in its mother's tummy or inside an egg? If we invited this animal to a picnic, what would it eat? How does it move around?

### KINDERGARTEN (Ages 5-6)

#### BON APPÉTIT! alter@nima

Let's eat! It's lunch time for the animals, but who eats what? Each child must prepare a meal for an animal from the exhibition. Together, they will discover the different diets of each creature.

#### FASCINATING FOSSILS Workshop

Witnesses of a past life, fossils reveal many secrets, from the biggest dinosaur to the smallest snail! Impersonating a paleontologist, children dive into this fascinating world and analyse footprints that lead them to former life forms.

### ELEMENTARY CYCLES 1, 2, AND 3

#### VISIT THE MAGOG RIVER GORGE Field trip

What better way to learn more about the geology, history, flora and fauna of the Magog River than by strolling along its trails and footbridges, in the heart of our urban nature?

# SCHOOL ACTIVITIES (continued)

## ELEMENTARY CYCLE 1

### A QUESTION OF CLASSIFICATION

#### alter@anima

How do biologists classify the wildlife that inhabits our planet? What distinguishes a bird from a reptile? Are insects animals? With the help of a stuffed toy, the children go in search of an animal. With their new knowledge, will they know how to classify it?

### BUGS & CO.

#### alter@anima

You said arthro-what? Arthropods, these bugs that crawl underground, buzz in our ears, and hide in our gardens. Discover insects, spiders and other bugs.... Will children dare to see the world through insects' eyes?

### NATURAL COLLECTIONS

#### Workshop

How do young people classify objects from their collections at home? By colour, shape, size? How is it done in biology? There's nothing like learning to be able to understand. A treat awaits afterwards: a tour of the museum's collections!

### ANIMALS' ADAPTATIONS

#### Workshop

How clever is nature! Animals compete in terms of shape, color and originality. It's often one of their weirdest characteristics that enables them to survive in their habitat. Surprises guaranteed!

## ELEMENTARY CYCLE 2

### UNKNOWN DESTINATION

#### alter@anima

Aboard an imaginary ship, students stop over a mysterious island to discover an astonishing fauna with its colors, shapes and contrasts. Through their observations, they will become true explorers.

### MISSION: ANIMALS IN DANGER

#### alter@anima 4th grade

Students will be entrusted with a mission: identify the dangers linked to human activity and that threaten animal species. To ensure they complete their mission, we'll share all our scientific knowledge. Students will become secret agents working for the environment!

### QUEBEC IN THE DAYS OF THE FIRST NATIONS

#### Workshop and in-class activity

Who were the First Nations who inhabited Quebec before the arrival of Jacques Cartier? How did they live, and how did they get around? What better way to understand the ways of the Algonquin and Iroquois circa 1500 than by handling objects from their daily lives?

## ELEMENTARY CYCLES 2 AND 3

### STOPS AROUND THE WORLD

#### Workshop and in-class activity

Students hop aboard for a travel around the world. In a submarine or a plane, through enigmas and observations, the crew goes off to meet with animals and observe their adaptations, all more surprising than the others.

### THE BIRD

#### Workshop

Students discover the characteristics of these animals, starting with a quiz, and touching the different parts of birds. Will the children be able to guess what and how birds eat, how they have adapted, and the relationships that these feathered animals have with their environment?

### OUR MAMMALS

#### Workshop

What is a mammal? By comparing numerous natural specimens, the students will deduce the characteristics of these animals and discover those living in Eastern North America.

### THE MUSEUM'S LAB

#### Workshop

Through various interactive activities, students come up with questions, develop hypotheses, and reflect on the principles of the law of conservation of energy.

## ELEMENTARY CYCLE 3

### THE MINERAL WORLD

#### Workshop

Students will be introduced to the captivating universe of minerals, where even the most ordinary rocks can have unusual characteristics. Some of them are the most useful in making everyday objects. In this workshop, children handle objects and learn how to identify rocks and minerals.

### THE SOLAR SYSTEM

#### Workshop

As scientists for an international space agency, the students discover and compare the main celestial bodies that compose our solar system. At the end of the workshop, a quiz will have them turning their eyes to the sky.

### GRAB YOUR TROWELS! FIRST NATIONS ARCHEOLOGY

#### Workshop

How do archeologists reconstruct the history and ways of life of the First Nations before the arrival of Europeans? Young visitors will discover artifacts during a simulated dig and, like detectives, will interpret the findings to determine the activity associated with the object.

### WORLD AND BIOMES

#### alter@anima

Why is it that some animals only live in certain environments? Why do some plants only grow in a specific place? By taking measurements, students will learn about different terrestrial biomes and the distribution of biodiversity on Earth.

# SECONDARY ACTIVITIES

## SECONDARY CYCLE 1

### WORLD AND BIOMES **alter@nima**

Why is it that some animals only live in certain environments? Why do some plants only grow in a specific place? By taking measurements, students will learn about different terrestrial biomes and the distribution of biodiversity on Earth.

## ALL SECONDARY CYCLES

### SECRETS OF THE SEDUCER **alter@nima**

How do coral reproduce? What are birds' shimmering colours and cervids' antlers for? Seduction in the animal world is an art. Observations and an interactive quiz enable students to decode all of these mysteries.

### CAREER VISIT

Young people have an opportunity to explore the non-public parts of the Museum, and by meeting different members of our team, learn about jobs related to museology (researcher, curator, designer, wood workers, educator, etc.).

### 12,000 YEARS OF INDIGENOUS PRESENCE IN THE ESTRIE REGION **NEW!**

Did you know that the first humans to arrive in Quebec settled in the Estrie region? Archeological digs confirm this. After having worked on the Cliche-Rancourt dig sites in the Megantic lake region and the Gaudreau and Kruger sites in the Saint-François river basin, the archeologist Éric Gaillon can now draw the first indigenous settlements in the region. Their history is fascinating, as much as the artefacts found.

Discover the climate, fauna, flora, tools and way of life of these first newcomers and try out some indigenous techniques to survive!



# ANIMATIONS SERVICE DE GARDE

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## Ages 5-11

### ANIMAL LOCOMOTION *Workshop*

Are children ready to run, jump, crawl or even fly like animals do? Careful! They might be surprised by the locomotion performances and strategies that they've developed! On your marks, get ready, set, go!

## Ages 5-7

### BETWEEN EARTH AND SKY **alter@nima**

A very old Druid is called upon to find a living habitat for animals before they are catapulted into the real world. While the Druid is away, the children are given training to replace him. Will they pass the test and be able to make the right choices of water, air, trees, or ground?

## Ages 7-11

### MYSTERIOUS FUR BALL **alter@nima**

Dispatched on the trail of the Master of the Realm, the children become detectives! What is this mysterious creature? Is it an excellent hunter or a peaceful herbivore? In this activity, curiosity is piqued, and young people lead the investigation.

**Children in day-care groups will also enjoy the multisensory show Terra Mutantès, as well as entertaining tours of our temporary exhibitions.**

# ESSENTIAL KNOWLEDGE ASSOCIATED WITH ACTIVITIES

The educational activities and workshops are linked to the learning content in the fields of mathematics, science, and technology described in the Québec Education Program.

▲ Early childhood ▲ Kindergarten

● Elementary cycle 1 ● Elementary cycle 2 ● Elementary cycle 3

■ Secondary cycle 1 ■ Secondary cycle 2

	LEVEL	ACTIVITY	ESSENTIAL KNOWLEDGE OR SKILLS	PAGE
MUSEUM	<b>MUSEUM</b>			
	▲▲●●●■	<b>Terra Mutantès</b>	Describe the main surface structures of the Earth (continents, oceans, ice caps, mountains, volcanoes).	4
	▲	<b>Baby Grows Up</b>	Distinguish the different types of embryo development (viviparous for most mammals; oviparous or ovoviviparous for the rest).	4
	▲	<b>Bon appétit!</b>	Associate familiar animals with their diets (carnivore, herbivore, omnivore).	4
	▲	<b>Fascinating Fossils</b>	Build one's understanding of the world (preschool competence) Distinguish a fossil (or a trace of the living world) from a rock.	4
	●●●	<b>Visit to the Magog River Gorge</b>	Describe certain natural phenomena (e.g. erosion). Describe methods developed by humans to transform renewable sources of energy into electricity (hydroelectric dam).	4
	●	<b>Question of Classification</b>	List animals according to their classification (mammals, reptiles, birds, fish, and amphibians).	5
	●	<b>Bugs &amp; Co.</b>	Associate anatomical parts and systems with their primary functions.	5
	●	<b>Natural Collections</b>	Describe various kingdoms (micro-organisms, fungi, plants, animals).	5
	●	<b>Animals' Adaptations</b>	Describe physical characteristics that witness an animal's adaptation to its habitat.	5
	●	<b>Destination Unknown</b>	Describe the physical characteristics that demonstrate an animal's adaptation to its environment. Describe the impact of human activity on their environments.	5
	●	<b>Mission: animals in danger</b>	Describe physical characteristics that witness an animal's adaptation to its habitat. Describe the impacts of human activity on its environment.	5
	●	<b>QC in the Days of the First Nations</b>	<b>Social Sciences</b> Iroquois and Algonquin society circa 1500.	5
	●●	<b>Stops around the world</b>	Explain animal adaptations that increase their chances of survival.	5
	●●	<b>Birds</b>	Associate animals' anatomical parts and systems with their primary functions.	5
	●●	<b>Our Mammals</b>	Describe the physical characteristics that demonstrate an animal's adaptation to its environment.	5
	●●	<b>The Museum's Lab</b>	Describe the different forms of energy (mechanical, electrical, light, chemical, caloric, sound, nuclear). Describe the transformations from one form of energy to another.	5
	●	<b>The World of Minerals</b>	Distinguish a rock from a mineral. Describe the shape, colour, texture, and various other physical properties of an object (e.g. elasticity, hardness).	5
	●	<b>The Solar System</b>	Describe the characteristics of the main bodies in the solar system (e.g. composition, size, orbit, temperature).	5
	●	<b>Grab Your Trowels! First Nations Archeology</b>	<b>Social Sciences</b> Iroquois society between 1500 and 1745. Learn how it functioned within its territory.	5
	●■	<b>World and Biomes</b>	Explain how animals adapt to increase their chances of survival. Appropriately use simple measuring instruments (thermometer). Name 6 characteristics that define a habitat (climate, flora, fauna). Describe the habitats of certain species.	5-6
	■	<b>Secrets of the Seducer</b>	Explain the physical and behavioural adaptations that increase animals' chances of survival. Explore the process of natural selection.	6
	■	<b>Career Visit</b>	Explore the world of careers.	6
	■	<b>12,000 years of First Nations presence in the Eastern Townships</b>	<b>Social Universe. Geography.</b> List activities related to First Nations traditional lifestyles. Describe, according to the Asian migration theory, the migratory movements that caused the settlement of the First Occupiers of Northeastern America. Describe how groups of nomadic Native Americans organize their territory.	6
MAISON DE L'EAU	<b>MAISON DE L'EAU</b>			
	▲▲●●●	<b>Petits monstres du marais</b>	Décrire des caractéristiques physiques qui témoignent de l'adaptation d'un animal à son milieu. Répertoire des animaux selon leur classe (reptiles et amphibiens). Décrire des changements dans l'apparence d'un animal qui subit une métamorphose (grenouille).	9
	▲	<b>Sur le dos de l'escargot</b>	Développer les dimensions cognitive, physique et motrice.	9
	●	<b>Faune urbaine</b>	Décrire l'interaction entre les organismes vivants et leur milieu (habitats) et l'interaction entre l'être humain et son milieu.	9
	●●	<b>L'appel de la rivière</b>	Décrire divers impacts de la qualité de l'eau sur les vivants. Utiliser adéquatement des instruments de mesure (thermomètre).	9



# LA MAISON DE L'EAU

## LUCIEN BOUCHARD PARK







# MAISON DE L'EAU ACTIVITIES

Regular duration of activities: 45 to 60 minutes. Day camp 45 minutes.

The Maison de l'eau, located in Parc Lucien-Blanchard, is home to living treasures: frogs, turtles, snakes, and fish that observe you from their new settings. It's an ideal place to see the region's species up close. The Maison de l'eau has three levels from which you can discover local wildlife. Come watch birds from the "cabane d'en eau!" Several educational activities are also offered.

## SCHOOL ACTIVITIES

### ALL ELEMENTARY CYCLES

#### LITTLE MARSH MONSTERS

Are you familiar with the salamanders, frogs, turtles, and snakes that live in the Estrie region? There are many amphibians and reptiles, and some of them dwell at the Maison de l'eau. Young people will discover the differences between these two groups of animals and will have an opportunity to touch some of them. If time permits, we'll go off in search of them on the trails in Lucien-Blanchard Park.

#### ELEMENTARY CYCLE 1

##### URBAN JUNGLE

As cities become ever bigger, some animals have to learn how to live alongside us. The students will become observers and track down some of our furry and feathery neighbours. If time permits, the students will go off in search of the traces that some of them may have left along the trails.

#### ELEMENTARY CYCLES 2 AND 3

##### THE CALL OF THE RIVER

Each river has its secrets, even the Magog River! What is hidden beneath the surface? What is a river for? Water quality is very important for many species. If time permits, the young people can conduct experiments outdoors to assess it.

## DAY CAMPS AND DAY-CARE CENTRES

### AGES 5-10

#### BUGS, BUGS EVERYWHERE!

Insects are so small that sometimes we forget they exist! What are their roles? How do they manage to be so inconspicuous? If time permits, the children will head out in teams, equipped with nets, to hunt insects and try to identify their catches before releasing them.

### AGES 7-11

#### FISHING STORY

In a fun-filled atmosphere, the children will learn how to use a fishing rod, as well as how to identify some of the fish species that live in the Magog River.

#### ENIGMATIC CREATURE

At night fall, unexplained phenomena take place at the Maison de l'eau. A stange creature spreads mystery. Young detectives are needed! Are their senses sharp enough to discover what this strange creature looks like? Can they decipher the clues? A great challenge!

## EARLY CHILDHOOD

### AGES 4-5

#### FOLLOW THE SNAIL

Following a snail and its spiral house, children discover the shapes and patterns hidden here and there in nature, from an animal's fur to a frosted window. The patterns of the animals living at the Maison de l'eau are examined throughout, for the most curious. Unexpected shapes will surprise them, shapes that even inspire great architects!

# PRACTICAL DETAILS

## LUNCHES AND SNACKS

If you plan to be onsite for lunch, the Museum will provide outdoor and indoor dining areas for groups.

## FINANCIAL SUPPORT

### CULTURE AT SCHOOL

The Culture at School Program, managed by the Ministère de la Culture et des Communications and the Ministère de l'Éducation et de l'Enseignement supérieur, reimburses a portion of the transportation fees for youth who participate in a program of a cultural nature.

*Contact your local school board for details.*

### SPECIAL STS RATES

The Société de transport de Sherbrooke (STS) offers special rates to school groups from the Commission scolaire de la Région-de-Sherbrooke (CSRS).

*Contact the STS at 819-564-2687 for more information.*

### CULTURAL DEVELOPMENT SUPPORT PROGRAM

The cultural development support program created by the Commission scolaire de la Région-de-Sherbrooke (CSRS) and the Ville de Sherbrooke reimburses the transportation and entrance fees to eligible cultural organizations.

*Contact the CSRS for more information.*

## MUSEUM BOUTIQUE

Take some time to discover our boutique. Unearth interesting souvenirs of your visit or an original gift. You'll find a unique collection of jewelry in natural stone, minerals, and semi-precious gems from several countries.

People of all ages will find entertaining games and adorable stuffed animals. Our selection of products from Quebec and the Estrie region will have something to please everyone and to fit every budget.







Fanny



Marie-Claude



Aurélie



Valérie



Katy



Eric



Anne-Marie



# TEAM, RATES, CONTACT INFORMATION

## THE TEAM

Our dynamic and attentive team welcomes and invites you to discover these genuine wonders.  
For a reservation at the museum or the Maison de l'eau or for any question, please contact us at 819-564-3200, ext. 251 or email [anne-marie.robaille@mns2.ca](mailto:anne-marie.robaille@mns2.ca)

## GROUP RATES APPLY AT THE MUSEUM AND MAISON DE L'EAU

### SCHOOL RATES <sup>\*1</sup>

Group: 20 students minimum

	Fee per participant
1 activity	\$5.00
2 activities	\$5.50
3 activities	\$6.00
4 activities	\$6.50
1 chaperone/5 children	free



### DAY CARE RATES <sup>\*1</sup>

Group: 8 children minimum

	Fee per participant
1 activity	\$5.00
2 activities	\$5.50
1 chaperone/2 children	free



- \* Plus taxes
- All fees are subject to change without notice.
- 1 Cancellations made less than one week before the activity date will be charged the minimum fee.

## CONTACT INFORMATION

### Nature and Science Museum

225 Frontenac St.  
Sherbrooke, QC J1H 1K1  
819-564-3200 | [mns2.ca](http://mns2.ca)

### Maison de l'eau

755 Cabana St., Parc Lucien-Blanchard  
Sherbrooke, QC J1K 2M3  
819-564-3200 | [maisondeleau.ca](http://maisondeleau.ca)

## PAYMENT METHODS





# MNS<sup>2</sup>

MUSÉE NATURE SCIENCES  
SHERBROOKE

## OUR MISSION

Inspire, fascinate and make accessible to each and all the discovery of nature, sciences, and the richness of our natural collections.

## OUR VISION

Passionate and driven by a sustained desire for commitment and innovation to inspire interest in the nature and sciences to all, we envision becoming a leader in the design and production of exhibitions in Canada.

## OUR VALUES

Creativity, **passion**, cooperation, **openness**, rigour.

Culture  
et Communications  
Québec 

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