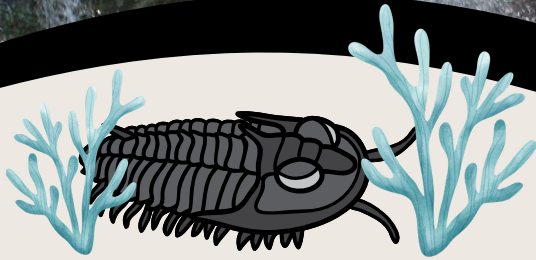




NIAGARA GEOPARK GEOSERIES



The **GEODIVERSITY EDUCATION FOUNDATION** is proud to be the **GEOSCIENCE EDUCATION PARTNER** of the **NIAGARA GEOPARK**. Working with **MCMASTER UNIVERSITY**, we are developing GeoHikes and GeoRoutes in the Geopark. Together, we make accurate and up-to-date information about the exciting geology and environment of the Niagara Peninsula available to the public. To visit all our virtual tours in the Niagara Peninsula, go to <https://geodiversity.ca>.





BEAMER MEMORIAL: SEE TWO BIRDS AND MANY STONES!

If birds and rocks are your thing, you won't want to miss the Beamer Memorial GeoHike! See evidence of ancient marine fossils, glacial activity, and the fascinating rock layers that make up the beautiful Niagara Escarpment.

CAVE SPRINGS: HOLES, FISSURES, AND CAVES, OH MY!

Exposure to slightly acidic rainwater has impacted the dolostone at Cave Springs. It has carved into the rock, creating caves, holes, and fissures, which are collectively called karst. The use of these caves for storage or safety goes at least as far back as the 1800s!



BALL'S FALLS: A ROCKY STORYBOOK

The rock layers exposed at lower Ball's Falls are like pages in a book that tell the story of the environment here 445 to 420 million years ago. They tell us about past ecosystems, but their different colours also provide the ultimate viewing experience!

LOUTH: LEARN IT THROUGH THE GRAPEVINE

The Niagara Escarpment has had a profound physical and agricultural effect in the region, allowing the Niagara region to be an ideal location to grow grapes. Louth has excellent vineyards, dolostone outcrops, and a picturesque waterfall!



ROCKWAY: A PLACE OF MANY LAYERS

The tall, exposed cliff faces at Rockway tell a story about what this area was like during the Silurian Period, over 420 million years ago. The many layers that make up Rockway Falls makes it a beautiful place to visit and learn about rock deposition.

SHORT HILLS: BREAKING THE ICE ABOUT LOCAL GEOLOGY

Did you know that a short 20,000 years ago this area was covered by glacial ice that was over a kilometre thick? It's true! If you want to see evidence of this, look no further than Short Hills, where the land itself was shaped by these powerful sheets of ice!



WINERY GEOROUTE: GRAPES AND GEOLOGY*

The Niagara Peninsula is known for its wine varieties, thanks to the longer growing season in the area. The type of rock present affects the overall taste, and overall topography offers ideal sheltered slopes for vineyards.

*Expected release: Spring 2027

LOCUST GROVE: NOT JUST ANOTHER POWER TRIP

The Locust Grove GeoHike includes a visit to the Sir Adam Beck Hydroelectric Generating Station and explains the crucial link between geological forces and electricity generation. Visit Brock's Monument, a 56-metre-tall limestone column.



NIAGARA GORGE GEOHIKE: A WANDERING WATERFALL

If you were to visit Niagara Falls 12,000 years ago, you would have had to trek to Niagara-on-the-Lake! Since then, it's receded to its present-day location, cutting the bedrock and revealing the beautiful rock layers of the Niagara Escarpment along the sides of the gorge!

NIAGARA RIVER: DO GO CHASING THIS WATERFALL!

The majestic Niagara Falls formed over 12,000 years ago at Lake Ontario. Due to erosion, it has been moving southward ever since, shaping the beautiful Niagara River as it continues its journey towards Lake Erie.



WAINFLEET WETLANDS: TROPICAL HEAVEN TO FOSSIL GRAVEYARD

A shallow and warm tropical sea covered this area during the Devonian Period, 387 million years ago. Many different marine species thrived in the sunny waters. Examine the limestone at Wainfleet and find the well-preserved fossils of many of the critters that lived at that time.

MORGAN'S POINT: SANDS OF TIME

The sandy dunes that shape the landscape as you move inland at Morgan's Point are a fragile ecosystem we must protect. Hardy, strong-rooted vegetation thrives here as they act as protection for interior ecosystems. Morgan's Point is the perfect place to learn about sand dune formation and see some interesting geological features.

