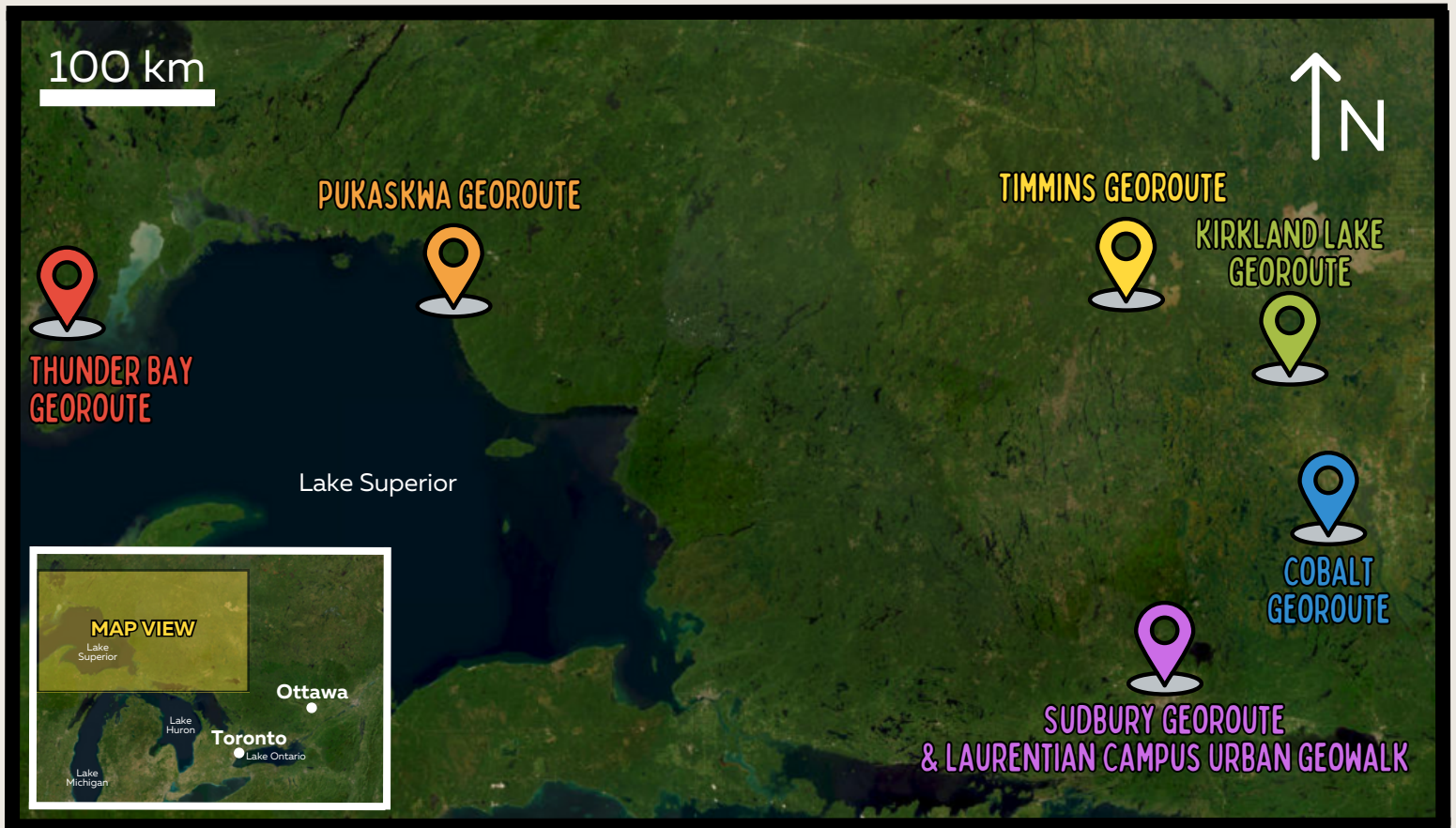




GEOROUTES IN NORTHERN ONTARIO



The **APGO EDUCATION FOUNDATION** is proud to present GeoRoutes in Northern Ontario. GeoRoutes are virtual field trips of geologically significant areas in Ontario. Each GeoRoute consists of a number of stops accessible by car (or virtually). The geological story of each stop is provided, along with photos of outcrops and hand samples. To visit all GeoRoutes in Ontario, go to <https://geoscienceinfo.com/georoutes>.



Thunder Bay



Sudbury



Cobalt



Laurentian University
Université Laurentienne





THUNDER BAY: FOLLOW THE PURPLE BRICK ROAD

Over 1 billion years ago the North American continent began to pull apart along a rift, but ultimately failed to separate (you may have noticed it's still together!). Some of the resulting cracks filled with hot waters, resulting in the formation of the beautiful amethyst crystals in the Thunder Bay area. These purple gems are a must see!

PUKASKWA: A TALE AS OLD AS TIME

This area may look beautiful and serene now, but 2.7 billion years ago it was covered in active volcanoes that spewed lava, ash, and volcanic bombs all over the place! Take this tour to see evidence of this heated past, including geological features such as pillowed basalts and diabase dikes.



TIMMINS: MINING, MINING, AND MORE MINING!

Lured by visions of wealth, people came to Timmins for the gold, and stayed for the zinc, copper, nickel, and silver. And gold. Still a successful mining hub today, this region has a wild assortment of rock outcrops. From banded iron formations to the Great Abitibi Dike, these ancient rocks have many stories to tell.



KIRKLAND LAKE: AS GOOD AS GOLD

In 1911, prospector Bill Wright was walking in the bush at dusk and literally stumbled over a quartz outcrop with visible gold in it. This initial find turned out to be on the main fault line in the area and made him very rich! Even now, gold is being mined at Kirkland Lake from gold-bearing quartz veins that lie along the same geological fault discovered by Wright in 1911.



COBALT: THE CUTEST LITTLE TOWN WITH A BIG HISTORY

In the early 1900s, Cobalt went from brush to a booming centre in the flash of an eye. The discovery of silver led to a few decades of immense success. Production ultimately declined, but the old headframes and structures still stand, telling stories of their youth. Take a stroll through time and learn about the old mines in the area.



SUDBURY: WHAT AN IMPACT!

Just over 1.8 billion years ago, a huge meteorite 10-15 km in diameter slammed into Sudbury, melting the rock and creating a chaotic mess of debris up to 800 km away! Today we are reaping the rewards of this epic crash by mining the minerals that became concentrated as a result of it, such as nickel, copper, palladium, gold and many other metals.

