Read the following articles:

* <http://www.cbc.ca/news/technology/ransomware-europe-russia-ukraine-petya-bitcoin-1.4179683>
* <http://www.cbc.ca/news/canada/toronto/oshawa-hospital-cyberattack-1.4114758>
* <https://www.thestar.com/news/canada/2017/05/13/ontario-health-ministry-on-high-alert-amid-global-cyberattack.html>

**Ransomware Basics**

1. What is a ransomware attack?

Ransomware attack is a type of malware which encrypts the victim’s files then threatens to publish, lock access, or delete them unless a ransom is paid.

1. How does ransomware work and what does it affect?

A ransomware attack works by encrypting or locking a person’s personal files then demanding a ransom fee. This is done using crypto virology which encrypts files and the only way to decrypt them is using a unique key that only the hacker owns. It affects all the user files including documents, photos, passwords, etc.

1. How could you be affected by a ransomware attack?

Clicking on a sketchy link, such as one in your email inbox. Going on sketchy websites and also downloading untrusted files.

1. How can you protect yourself against a ransomware attack?

Do not click sketchy files, links or run .exe files. Do not click on anything that looks suspicious.

**Canadian Attacks (In The Past)**

1. What was affected in Canada in the articles above?

A hospital in Oshawa got all of its files encrypted, so they could not access it.

1. How badly was Canada affected?

Not very much, only the hospital was really affected.

1. What other countries were affected?

Ukraine, Germany, America, Poland, Italy, etc.

1. Where did the attack come from?

The malware’s origin is unclear. It is not certain where the malware attack came from.

1. Why was the attack started?

The hackers did it for money and profit. They encrypted many files and demanded money to decrypt them, otherwise they’d be lost forever.

1. How was the attacked stopped?

The emails that were being spread rapidly, were shut down by the email host (i.e. Google). Due to this, the rapid spread stopped, since the email could not be sent further.

**Canadian Attacks (Present Day)**

1. Google “ransomware attack Canada 2019” and research an attack that occurred in the past two months.
   1. Summarize the attack in a paragraph that describes: who, what, where, when.

The people who were affected by this attack were the Government of Nunavut. The things that were affected dramatically were all of the Nunavut Government’s services, hospital services, and workstations. The location where it occurred was Nunavut, Canada. The cyberattack took place Around 4 AM on a Saturday morning, on November 2nd, 2019. By 6:30 AM, the IT staff had confirmed the attack had occurred.