



## What Ontario JK-12 schools can do with ORION

Across the province, ORION is helping kindergarten, elementary, middle and high school teachers use new ways to engage and inspire students.

Here are just a few examples of how they're making the most of their ready access to people, technology and resources thanks to ORION.

### They've been able to take advantage of advanced educational technology.

"ORION is our partner (in making this happen). We're working together to connect our school board to others across

Ontario, to international resources and to reliable, private, powerful technology. Together, we will bring the 21st century classroom to our students and educators."

*York Region District School Board*

### They've brought virtual reality into the classroom, opening a portal to other worlds for their students.

"It takes their learning to a deeper level and provides them with the opportunity to experience and explore places that were unimaginable before this technology became available to educators."

*Waterloo Catholic District School Board*

### They've even had a high school biology class take part in a live demonstration by a research scientist at the Canadian Museum of Nature.

"I was very impressed with the quality of both the audio and video throughout the session...It was as if our guest presenter was standing in the room with us the entire time. The ORION connection that supported this event is outstanding."

*York Region District School Board*

Key features	ORION	Other networks
Network	Exclusively for Research, Education & Innovation (RE&I) users More secure than public networks Not for profit	Public – open to all For profit
Internet	Speeds up to 100 Gbps Vast bandwidth and low latency for streaming media Rates based on sector and capacity needs Provides equitable urban pricing & access for rural and remote regions	100x-1000x slower* Rates must provide a profit
Access to RE&I networks	Direct, easy access to Canada's National Research and Education Network as well as other RE&I networks worldwide	No direct access Bandwidth too low for big data
Cybersecurity	DDoS Threat Protection included Anycast DNS service included 24/7 DDoS Threat Protection available Cybersecurity awareness training available	May not be included Greater vulnerability to viruses, hackers, breaches, malware & ransomware**
Community training	Professional development for RE&I cybersecurity & IT professionals Flexible online training CodeRed learning platform	Quality, cost and scope vary widely Training geared to general audiences
Access to educational content and tools	Easy access to content providers like TFO, tools like Google for Education and learning management systems like Brightspace	Service quality varies Focus is on commercial needs

\*In 2020, Canada's highest reported download speed among public networks was 583.7 Mbps – just over half of one Gbps. The next highest was a quarter of that. PCMag, Statista

\*\*1 in 4 organizations in Canada had a security breach in 2020; another 38% were unsure if they had. CIRA

**What can we do for you?**  
Find out by calling 416-507-9860 or by emailing [communitydev@orion.on.ca](mailto:communitydev@orion.on.ca)



Part of Canada's National Research and Education Network