

EXPLORATION IN THE 21ST CENTURY



CANADIAN GEOGRAPHIC EDUCATION'S
ONLINE
Classroom

Subjects:

Geography, exploration, mapping, geolocations

Time:

1 hour

Grades:

K-12

What to know before getting started:

The Royal Canadian Geographical Society (RCGS) runs an Explorers-in-Residence (EIR) program, which allows all Canadians to connect with the expeditions and field research being carried out by some of the nation's top explorers, scientists and conservationists. Each explorer has a unique way of gathering information about people and places, and uses a different set of tools to conduct and document their research. **Use the list of resources below to see how explorer's toolkits can include things like cameras, archaeological tools, diving equipment, rappelling gear, writing supplies, canoes and kayaks, GPS technology, and so much more!**

Materials you will need:

- An electronic device with internet access and sound

Activity time!

The RCGS currently has five Explorers-in-Residence that help The Society bring new discoveries, new data, stories and images from the field to the public and the scientific community. Pick apart their explorer toolkits and follow their amazing accomplishments using the resources listed below.

EXPLORER #1 - JILL HEINERTH

Essential skills and items in Heinerth's explorer toolkit:

- Underwater cave diving equipment
- Underwater cameras and filmmaking equipment
- Scientific equipment for collecting data deep sea data
- Oral presentation, writing, teaching and storytelling expertise

Resources:

- [Into the Planet website](#)
- [The mysterious world of underwater caves TED Talk](#)
- [Jill Heinerth's YouTube page](#)
- [Dive into the planet Google Earth story](#)
- [Explore: A Canadian Geographic podcast - Episode 2: Jill Heinerth](#)

EXPLORER #2 - GEORGE KOUROUNIS

Essential skills and items in Kourounis' explorer toolkit:

- Storm chasing equipment
- High-tech cameras and filmmaking equipment
- Scientific equipment for collecting data weather data
- Oral presentation, writing, teaching and storytelling expertise

Resources:

- [George Kourounis' website](#)
- [George Kourounis' YouTube page](#)
- [National Geographic interview on storm chasing](#)
- [Exploring By The Seat Of Your Pants interview on extreme environments](#)
- [Explore: A Canadian Geographic podcast - Episode 7: George Kourounis](#)

EXPLORER #3 - MYLÈNE PAQUETTE

Essential skills and items in Paquette's explorer toolkit:

- Navigation and sailing equipment
- Ice canoeing equipment
- Marine survival gear
- Oral presentation, writing, teaching and storytelling expertise

Resources:

- [Mylène Paquette's website](#)
- [Mylène Paquette's YouTube page](#)
- [First North American woman to row solo across Atlantic adjusts to life on land](#)

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EXPLORER #4 - RAY ZAHAB

Essential skills and items in Zahab's explorer toolkit:

- Ultra marathon and extreme adventure equipment
- Communication technologies for remote locations
- Hot and cold desert survival gear
- Oral presentation, writing, teaching and storytelling expertise

Resources:

- [Ray Zahab's website](#)
- [Education, inspiration and empowerment TEDx Talk](#)
- [Impossible2Possible website](#)
- [Explore: A Canadian Geographic podcast - Episode 1: Ray Zahab](#)

EXPLORER #5 - ADAM SHOALTS

Essential skills and items in Shoalts' explorer toolkit:

- Mapping and navigation equipment
- Tools for archaeological digs
- Wildlife and landscape photography equipment
- Oral presentation, writing, teaching and storytelling expertise

Resources:

- [Adam Shoalts' website](#)
- [Adam Shoalts: Crossing the Arctic Alone](#)
- [Exclusive: Adam Shoalts on his epic Trans-Canadian Arctic Expedition](#)
- [Explore: A Canadian Geographic Podcast - Episode 4: Adam Shoalts](#)

Stop and think: What do each of these explorers have in common? What sets each of them apart from their fellow Explorers-in-Residence? What types of environments have these individuals explored? What modes of transportation and scientific equipment do they use on their adventures? What problems might they encounter during their travels? What contributions are they making to society? What interesting facts have surfaced from their research? If you had to make a map that detailed their individual adventures, how would you do it?

Share your learning adventure with us!

What did you learn by completing this activity? Do you have any questions? Did you take any screenshots you would like to share with others? Tag @CanGeoEdu on Facebook, Twitter or Instagram and let us know using the hashtag #OnlineClassroom!