



DETERMINING VOLCANIC RISK IN AUCKLAND

Auckland is a vital link in New Zealand's economy and the city and surrounding region are internationally desirable places to work. However, Auckland sits on a volcanic field. The DEVORA research programme is aimed at a much-improved assessment of volcanic hazard and risk in the Auckland metropolitan area.

Teaching Resources

Game time: Play with virtual fire! Learn more about volcanoes with access to interactive games and tailored classroom lessons for all ages.

(For use with Class exercises and games)

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Class Exercises & Games

For Ages 7+

[Volcanoes Top Trumps](#) – [online game](#) & [physical cards](#)

[Oregon University Volcano World Game Links](#)

[Scholastic VolcanoLab](#)

[Earth Girl Game](#)

For Ages 11+

[Volcano Island Game](#)

[Supervolcano Game](#)

For Ages 14+

[Hazagora Game: Will You Survive the Next Disaster? Game Description](#)

- Hazagora Video – [Lava Flows](#)
- Hazagora Video – [Ash Fall](#)
- Hazagora Video – [Tsunami](#)
- Hazagora Video – [Earthquakes](#)
- Hazagora Video – [Conclusion](#)

[Extreme Event Game](#): How to build community resilience to disasters

Lesson Plans and Materials

Volcano Experiments - [DEVORA Experiments Manual](#): This pdf contains 8 experiments that demonstrate how volcanoes work and help kids understand the science behind volcanic eruptions. Note: These need adult supervision. We are not liable for any mishaps!

[GNS Volcano Lesson Plan Series](#): This series covers everything kids could want to know about volcanoes in New Zealand. The series includes lesson plans, teacher's notes, and activities.



Teaching Resources. Last updated on 07/07/2020.

[GNS Volcanoes](#): The GNS website offers specialized videos and informative pages about New Zealand volcanoes sorted by topic. For the entire video series click [here](#).

[GNS Volcano Fact Sheets](#): Downloadable posters about each of the major New Zealand volcanoes.

[Auckland Eruption Animation](#): Watch Auckland's volcanoes pop up one by one, in chronological order, starting 192,000 years ago! Animation created by Dr Jenni L Hopkins. Please credit accordingly.

Field Trips

[Geotrips](#): A great place for finding potential field trips!

[Volcano Walks in Auckland](#): Just as it says on the tin. (Some paid content.)

Recommended Books

[Volcanoes of Auckland: The Essential Guide](#): This is a highly accessible, informative book suitable for almost all ages and expertise levels. DEVORA researchers regularly consult this book for information. It is out of print but can be found at many used book re-sellers and the Auckland Library.

[Lava and Strata: a field guide to the volcanoes and rock formations of Auckland](#)

[City of Volcanoes: a geology of Auckland](#)

Coming in late 2019: Look for *Field Guide to the Volcanoes of Auckland*, written and compiled by the same author as *Volcanoes of Auckland: The Essential Guide*!



Other Educational Links

Science Learn Website

- [‘Reading’ rock cores](#)
- [Predicting the nature of future explosions in Auckland](#)
- [Volcanic monitoring](#)
- [Measuring magma](#)
- The [Onepoto Basin](#)
- The [hazards that other volcanoes on the North Island pose to Auckland](#).

Auckland Museum Volcanoes Webpage

- [Learn](#) about the DEVORA project, why there are [volcanoes on Auckland](#), and see the [latest DEVORA research update](#) on the Auckland Museum’s *Volcanoes* webpage.
- [Discover](#) how Auckland’s volcanic field is monitored through GeoNet and BICEP (Borehole Instrument Centre for Eden Park).

Multimedia Links

[Listen to](#) Drs. Jan Lindsay and Graham Leonard explain DEVORA on Radio New Zealand National.

[Listen](#) to Auckland’s Volcanic Story, as told by Drs. Jan Lindsay and Phil Shane.

Dr. Jan Lindsay talks about the Auckland Volcanic Field in ‘[In the Belly of the Beast](#),’ an EarthWorks production by Radio New Zealand National. (The portion concerning the Auckland Volcanic Field starts at 45:00 minutes.) [Read the New Zealand Herald article](#) [Read the Scoop article](#)